







I-66 Eastbound Widening Inside the Beltway **DESIGN - BUILD**



Volume I Technical Proposal September 2017

Led by:



In association with:







Section 4.1.1.1

Technical Proposal Checklist and Contents











ATTACHMENT 4.0.1.1

I-66 EASTBOUND WIDENING INSIDE THE BELTWAY TECHNICAL PROPOSAL CHECKLIST AND CONTENTS

Offerors shall furnish a copy of this Technical Proposal Checklist, with the page references added, with the Technical Proposal.

Technical Proposal Component	Form (if any)	RFP Part 1 Cross Reference	Included within page limit?	Technical Proposal Page Reference
Technical Proposal Checklist and Contents	Attachment 4.0.1.1	Section 4.0.1.1	no	4.0-i $-$ iii
Acknowledgement of RFP, Revisions, and/or Addenda	Attachment 3.6 (Form C-78-RFP)	Sections 3.6, 4.0.1.1	no	4.0-iv
Letter of Submittal	NA	Sections 4.1		4.1-
Letter of Submittal on Offeror's letterhead	NA	Section 4.1.1	yes	1
Identify the full legal name and address of Offeror	NA	Section 4.1.1	yes	1
Authorized representative's original signature	NA	Section 4.1.1	yes	1
Declaration of intent	NA	Section 4.1.2	yes	1
120 day declaration	NA	Section 4.1.3	yes	1
Point of Contact information	NA	Section 4.1.4	yes	1
Principal Officer information	NA	Section 4.1.5	yes	1
Interim Milestone and Final Completion Date(s)	NA	Section 4.1.6	yes	1
Proposal Payment Agreement or Waiver of Proposal Payment	Attachment 9.3.1 or 9.3.2	Section 4.1.7	no	i - iv
Certification Regarding Debarment Forms	Attachment 11.8.6(a) Attachment 11.8.6(b)	Section 4.1.8	no	v - xvi
Offeror's Qualifications	NA	Section 4.2		4.2-

ATTACHMENT 4.0.1.1

I-66 EASTBOUND WIDENING INSIDE THE BELTWAY TECHNICAL PROPOSAL CHECKLIST AND CONTENTS

Technical Proposal Component	Form (if any)	RFP Part 1 Cross Reference	Included within page limit?	Technical Proposal Page Reference
Confirmation that the information provided in the SOQ submittal remains true and accurate or indicates that any requested changes were previously approved by VDOT	NA	Section 4.2.1	yes	1
Organizational chart with any updates since the SOQ submittal clearly identified	NA	Section 4.2.2	yes	1
Revised narrative when organizational chart includes updates since the SOQ submittal	NA	Section 4.2.2	yes	1
Design Concept	NA	Section 4.3		4.3-
Conceptual Roadway Plans and description	NA	Section 4.3.1	yes	1 – 15
Conceptual Structural Plans and description	NA	Section 4.3.2	yes	15 – 19
Project Approach	NA	Section 4.4		4.4-
Environmental Management	NA	Section 4.4.1	yes	1 – 6
Structures	NA	Section 4.4.2	yes	6 – 9
Quality Assurance/ Quality Control (QA/QC)	NA	Section 4.4.3	yes	9 - 17
Construction of Project	NA	Section 4.5		4.5-
Sequence of Construction	NA	Section 4.5.1	yes	2-4
Transportation Management Plan	NA	Section 4.5.2	yes	5 - 8

ATTACHMENT 4.0.1.1

I-66 EASTBOUND WIDENING INSIDE THE BELTWAY TECHNICAL PROPOSAL CHECKLIST AND CONTENTS

Technical Proposal Component	Form (if any)	RFP Part 1 Cross Reference	Included within page limit?	Technical Proposal Page Reference
Disadvantaged Business Enterprises (DBE)	NA	Section 4.6		4.1-
Written statement of percent DBE participation	NA	Section 4.6	yes	1
Proposal Schedule	NA	Section 4.7		4.7-
Proposal Schedule	NA	Section 4.7	no	1-24
Proposal Schedule Narrative	NA	Section 4.7	no	1-10
Proposal Schedule in electronic format (CD-ROM)	NA	Section 4.7	no	Original back cover

Section 4.1

Letter of Submittal













27 September 2017

Mr. Bryan W. Stevenson, PE Alternative Project Delivery Division Virginia Department of Transportation 1401 E. Broad Street Richmond, Virginia 23219

RE: Response to Request for Proposals (RFP)

I-66 Eastbound Widening Inside the Beltway Fairfax and Arlington Counties, Virginia A Design-Build Project

RFQ No.: C00108424DB92

Dear Mr. Stevenson:

Wagman Heavy Civil, Inc. (Wagman) is pleased to submit our Proposal for the above referenced project.

4.1.1 Offeror's Official Information. The full legal name and address of Wagman is as follows:

Wagman Heavy Civil, Inc.

3290 N. Susquehanna Trail, York, PA 17406-9754

Phone: 717.767.8277

Fax: 717.767.5546

- **4.1.2 Declaration of Intent.** If selected, Wagman intends to enter into a contract with VDOT for the Project in accordance with the terms of this RFP.
- **4.1.3 120 Day Declaration.** Pursuant to Part 1, Section 8.2, the offer represented by our Technical and Price Proposals will remain in full force and effect for one hundred twenty (120) days after the date the Technical Proposal is actually submitted to VDOT ("Technical Proposal Submission Date").

4.1.4 Authorized Representative/Point of Contact David Lyle, DBIA, VP, D-B/Major Pursuits

26000 Simpson Road, North Dinwiddie, VA 23803-8943 P. 804.631.0003 | F. 804.733.6281

Email. dwlyle@wagman.com

4.1.5 Principal Officer Information Greg Andricos, PE, President/COO

3290 N. Susquehanna Trail, York, PA 17406-9754 P. 717.767.8292 | F. 717.767.5546

Email. gmandricos@wagman.com

- 4.1.6 Interim Milestone and Final Completion Date(s). In accordance with RFP Section 2.3.1, the Wagman Team proposes an interim completion date of 10 November 2020 and a final completion date of 2 September 2021.
- 4.1.7 Proposal Payment Agreement or Waiver of Proposal Payment. An executed Proposal Payment Agreement (Attachment 9.3.1) can be found in the tab following this letter.
- **4.1.8 Certification Regarding Debarment Forms.** Certificates Regarding Debarment for the Primary firms (Attachment 11.8.6 (a)) and the Lower Tier firms (Attachment 11.8.6 (b)) are included in the tab following this letter.
- **4.6 Disadvantaged Business Enterprises (DBE) Commitment (15%).** The Wagman Team supports the DBE program and is committed to achieving or exceeding the fifteen percent (15%) DBE participation goal for the entire value of the contract.

The Wagman Team partners each have long and successful histories serving Virginians on numerous projects. As a single, integrated team, we will design and construct the I-66 Eastbound Widening Inside the Beltway Design-Build Project with a focus on maintaining safe and consistent operations throughout the corridor while minimizing impacts to the environment. We will create a transparent relationship with VDOT and third-party stakeholders to promote trust, confidence, and collaboration to deliver the project within budget and ahead of schedule providing overall best value to VDOT and the public.

Thank you for the opportunity to submit our Proposal.

Respectfully,

Wagman Heavy Civil, Inc.

David W. Lyle, DBIA Vice President

Section 4.1 9.3.1 Proposal Payment Agreement











ATTACHMENT 9.3.1 PROPOSAL PAYMENT AGREEMENT

THIS PROPOSAL PAYMENT AGREEMENT (this "Agreement") is made and entered into as of this 27th day of September, 2017, by and between the Virginia Department of Transportation ("VDOT"), and Wagman Heavy Civil, Inc. ("Offeror").

WITNESSETH:

WHEREAS, Offeror is one of the entities who submitted Statements of Qualifications ("SOQs") pursuant to VDOT's November 18, 2017 (Addenum #1 December 16, 2016) Request for Qualifications ("RFQ") and was invited to submit proposals in response to a Request for Proposals ("RFP") for the I-66 Eastbound Widening Inside the Beltway Project No. 0066-96A-417, P101, R201, C501 ("Project"), under a design-build contract with VDOT ("Design-Build Contract"); and

WHEREAS, as part of the procurement process for the Project, Offeror has already provided and/or furnished to VDOT, and may continue to provide and/or furnish to VDOT, certain intellectual property, materials, information and ideas, including, but not limited to, such matters that are: (a) conveyed verbally and in writing during proprietary meetings or interviews; and (b) contained in, related to or associated with Offeror's proposal, including, but not limited to, written correspondence, designs, drawings, plans, exhibits, photographs, reports, printed material, tapes, electronic disks, or other graphic and visual aids (collectively "Offeror's Intellectual Property"); and

WHEREAS, VDOT is willing to provide a payment to Offeror, subject to the express conditions stated in this Agreement, to obtain certain rights in Offeror's Intellectual Property, provided that Offeror submits a proposal that VDOT determines to be responsive to the RFP ("Offeror's Proposal"), and either (a) Offeror is not awarded the Design-Build Contract; or (b) VDOT cancels the procurement or decides not to award the Design-Build Contract to any Offeror; and

WHEREAS, Offeror wishes to receive the payment offered by VDOT, in exchange for granting VDOT the rights set forth in this Agreement.

NOW, THEREFORE, in consideration of the mutual covenants and agreements set forth in this Agreement and other good and valuable consideration, the receipt and adequacy of which are acknowledged by the parties, the parties agree as follows:

- VDOT's Rights in Offeror's Intellectual Property. Offeror hereby conveys to VDOT all rights, title and interest, free and clear of all liens, claims and encumbrances, in Offeror's Intellectual Property, which includes, without restriction or limitation, the right of VDOT, and anyone contracting with VDOT, to incorporate any ideas or information from Offeror's Intellectual Property into: (a) the Design-Build Contract and the Project; (b) any other contract awarded in reference to the Project; or (c) any subsequent procurement by VDOT. In receiving all rights, title and interest in Offeror's Intellectual Property, VDOT is deemed to own all intellectual property rights, copyrights, patents, trade secrets, trademarks, and service marks in Offeror's Intellectual Property, and Offeror agrees that it shall, at the request of VDOT, execute all papers and perform all other acts that may be necessary to ensure that VDOT's rights, title and interest in Offeror's Intellectual Property are protected. The rights conferred herein to VDOT include, without limitation, VDOT's ability to use Offeror's Intellectual Property without the obligation to notify or seek permission from Offeror.
- 2. <u>Exclusions from Offeror's Intellectual Property</u>. Notwithstanding Section 1 above, it is understood and agreed that Offeror's Intellectual Property is not intended to include, and Offeror does not convey any rights to, the Escrow Proposal Documents submitted by Offeror in accordance with the RFP.
- 3. Proposal Payment. VDOT agrees to pay Offeror the lump sum amount of Forty thousand dollars and 00/100 Dollars (\$40,000.00) ("Proposal Payment"), which payment constitutes payment in full to Offeror for the conveyance of Offeror's Intellectual Property to VDOT in accordance with this Agreement. Payment of the Proposal Payment is conditioned upon: (a) Offeror's Proposal being, in the sole discretion of VDOT, responsive to the RFP; (b) Offeror complying with all other terms and conditions of this Agreement; and (c) either (i) Offeror is not awarded the Design-Build Contract, or (ii) VDOT cancels the procurement or decides not to award the Design-Build Contract to any Offeror.
- 4. Payment Due Date. Subject to the conditions set forth in this Agreement, VDOT will make payment of the Proposal Payment to the Offeror within forty-five (45) days after the later of: (a) notice from VDOT that it has awarded the Design-Build Contract to another Offeror; or (b) notice from VDOT that the procurement for the Project has been cancelled and that there will be no Contract Award.
- 5. <u>Effective Date of this Agreement</u>. The rights and obligations of VDOT and Offeror under this Agreement, including VDOT's ownership rights in Offeror's Intellectual Property, vests upon the date that Offeror's Proposal is submitted to VDOT. Notwithstanding the above, if Offeror's Proposal is determined by VDOT, in its sole discretion, to be nonresponsive to the RFP, then Offeror is deemed to have waived its right to obtain the Proposal Payment, and VDOT shall have no obligations under this Agreement.

- 6. <u>Indemnity</u>. Subject to the limitation contained below, Offeror shall, at its own expense, indemnify, protect and hold harmless VDOT and its agents, directors, officers, employees, representatives and contractors from all claims, costs, expenses, liabilities, demands, or suits at law or equity ("Claims") of, by or in favor of or awarded to any third party arising in whole or in part from: (a) the negligence or wilful misconduct of Offeror or any of its agents, officers, employees, representatives or subcontractors; or (b) breach of any of Offeror's obligations under this Agreement, including its representation and warranty under Section 8 hereof. This indemnity shall not apply with respect to any Claims caused by or resulting from the sole negligence or wilful misconduct of VDOT, or its agents, directors, officers, employees, representatives or contractors.
- 7. Assignment. Offeror shall not assign this Agreement, without VDOT's prior written consent, which consent may be given or withheld in VDOT's sole discretion. Any assignment of this Agreement without such consent shall be null and void.
- 8. Authority to Enter into this Agreement. By executing this Agreement, Offeror specifically represents and warrants that it has the authority to convey to VDOT all rights, title, and interest in Offeror's Intellectual Property, including, but not limited to, those any rights that might have been vested in team members, subcontractors, consultants or anyone else who may have contributed to the development of Offeror's Intellectual Property, free and clear of all liens, claims and encumbrances.

Miscellaneous.

- a. Offeror and VDOT agree that Offeror, its team members, and their respective employees are not agents of VDOT as a result of this Agreement.
- b. Any capitalized term used herein but not otherwise defined shall have the meanings set forth in the RFP.
- c. This Agreement, together with the RFP, embodies the entire agreement of the parties with respect to the subject matter hereof. There are no promises, terms, conditions, or obligations other than those contained herein or in the RFP, and this Agreement shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties hereto.
- d. It is understood and agreed by the parties hereto that if any part, term, or provision of this Agreement is by the courts held to be illegal or in conflict with any law of the Commonwealth of Virginia, validity of the remaining portions or provisions shall not be affected, and the rights and obligations of the parties shall be construed and enforced as if the Agreement did not contain the particular part, term, or provisions to be invalid.
 - e. This Agreement shall be governed by and construed in accordance with the laws

4.1 - iii

I-66 Eastbound Widening Inside the Beltway Fairfax County and Arlington County, Virginia Project No. 0066-96A-417, P101, R201, C501 & 0066-96A-493, P101, C501, B686 Contract ID # C00108424DB92

of the Commonwealth of Virginia.

IN WITNESS WHEREOF, this Agreement has been executed and delivered as of the day and year first above written.

VIRGINIA DEPARTMENT OF TRANSPORTATION

Ву:	
Name	
Title:	
[Inser	t Offeror's Name]
By:	Dan W. Lyle
Name	David Lyle, DBIA
Title:	Vice President, Wag man Heavy Civil Inc

Section 4.1

11.8.6(a) Certification Regarding Debarment 11.8.6(b) Certification Regarding Debarment











Project No.: 0066-96A-417, P101, R201, C501 & 0066-96A-493, P101, C501, B686

- 1) The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:
- a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency.
- b) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; and have not been convicted of any violations of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification, or destruction of records, making false statements, or receiving stolen property;
- c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph 1) b) of this certification; and
 - d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.
- 2) Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

wash.	. Tyle	September 25, 2017	Vice President
Signature	9	Date	Title
	avy Civil, I		

Project No.: 0066-96A-417, P101, R201, C501 & 0066-96A-493, P101, C501, B686

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

(1/1) 10	September 25, 2017	Vice President
Signature	Date	Title

Project No.: 0066-96A-417, P101, R201, C501 & 0066-96A-493, P101, C501, B686

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

Cennis CA	loc	Moon	August 10, 2017	Senior Vice President
Signature	1	Date		Title
Volkert, Inc.				
Name of Firm				

Project No.: 0066-96A-417, P101, R201, C501 & 0066-96A-493, P101, C501, B686

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

9/27/17 Senior Vice President

Fort Myer Construction Corporation

Name of Firm

Project No.: 0066-96A-417, P101, R201, C501 & 0066-96A-493, P101, C501, B686

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

A. Carrier of the Control of the Con	ta 6/20/2017	Prendent
Signature	Date	Title
CES	CONSULTING LLC	
Name of Firm		

ATTACHMENT NO. 3.2.7(b)

CERTIFICATION REGARDING DEBARMENT LOWER TIER COVERED TRANSACTIONS

Project No.: 066-96A-417

- The prospective lower tier participant certifies, by submission of this proposal, that 1) neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this form.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

Date VICE PRESIDENT
Title
Engineering Consultants

ATTACHMENT NO. 3.2.7(b)

CERTIFICATION REGARDING DEBARMENT LOWER TIER COVERED TRANSACTIONS

Project No.: 066-96A-417

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this form.

La Tes	9/5/2017	CFO	
Signature Date	,	Title	
Elite Contracting Group, Inc.			
Name of Firm			

Project No.: 0066-96A-417, P101, R201, C501 & 0066-96A-493, P101, C501, B686

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

hn	9/25/17	Director
Signature	Date	Title
Endesco, Inc.		

Project No.: 0066-96A-417, P101, R201, C501 & 0066-96A-493, P101, C501, B686

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

sill	9/25/17	Vice President & COC
Date	Diana B. Wasiuk	Title
Miller & Han	son Inc.	

Project No.: 0066-96A-417, P101, R201, C501 & 0066-96A-493, P101, C501, B686

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

Chabell Alinn	August 22, 2017	President	
Signature Date		Title	
Quinn Consulting Services, I	nc.		
Name of Firm			

Project No.: 0066-96A-417, P101, R201, C501 & 0066-96A-493, P101, C501, B686

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

Signature

Name of Firm

Date

Title

Project No.: 0066-96A-417, P101, R201, C501 & 0066-96A-493, P101, C501, B686

- 1) The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.
- 2) Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

The undersigned makes the foregoing statements to be filed with the proposal submitted on behalf of the Offeror for contracts to be let by the Commonwealth Transportation Board.

August 22, 2017

Signature

Date

VP of Business Development

Title

Specialized Engineering

Name of Firm

Section 4.2

Offeror's Qualifications













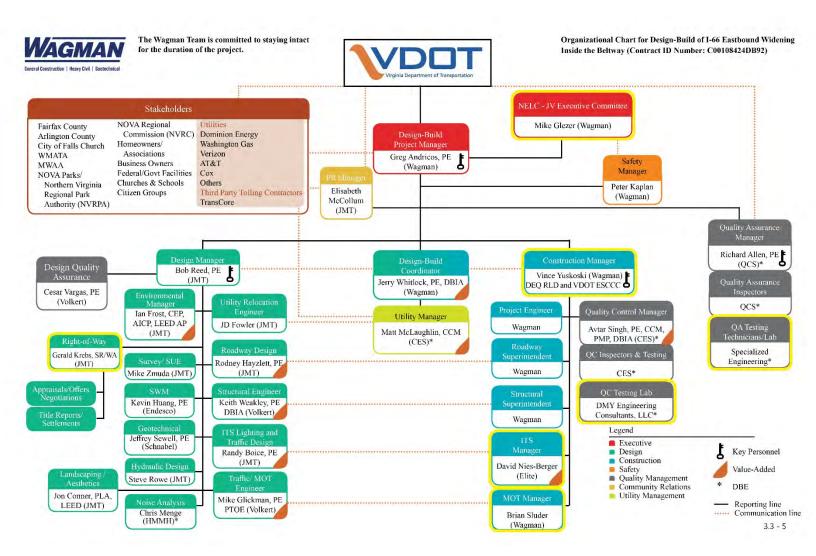
4.2 | OFFEROR'S QUALIFICATIONS

4.2.1 Confirmation of True and Accurate Information

We have modified the structure of our team per VDOT approval on **29 August 2017**, identifying Wagman Heavy Civil, Inc. as the D-B contractor. We have included the approval letter in the Appendix.

4.2.2 Organizational Chart and Revised Narrative

Our organizational chart below incorporates the structure modification above as well as personnel changes (indicated in yellow boxes below) as approved by VDOT on 6 September 2017. We have included the approval letter in the Appendix. We have identified our AMRL approved laboratories for Quality Assurance: Specialized Engineering and Quality Control: DMY Engineering Consultants, LLC, respectively. The utilities list has been updated. The functional relationships between positions and roles as described in our SOQ narrative remain unchanged, true, and accurate.



Section 4.3 Design Concept













4.3 | DESIGN CONCEPT

The Wagman Team has evaluated the preliminary plans and information provided in the RFP documents and has developed a design concept that both meets or exceeds the design standards for the Project and meets or exceeds the project's scope of work to benefit end users, particularly in terms of safety, operations, schedule, construction, and public acceptance. We have considered alternative materials and methods to implement optimal functionality in this Corridor that reduces future inspection and routine maintenance activities, providing VDOT full confidence in long term asset performance and durability.

Our team's shared experience in both design and construction within the I-66 Corridor further enhances the synergy of our team to successfully deliver this project utilizing the D-B process. Numerous team members have strong, recent Northern Virginia (NOVA) presence. The Wagman Team is distinguished by our collective *I-66 Corridor* experience. Our staff live and work in the project area and travel I-66 on a regular basis.

Table 4.3-1: Team Experience on or adjacent to I-66 Corridor

Project	Wagman Team involvement on or adjacent to I-66 Corridor		
I-66 OTB Tier 1 EIS	Design Mgr., Bob Reed, PE, (JMT): Led preliminary alternative development. JMT: SUE Services		
Idea 66 & I-66 ITB	Design Mgr., Bob Reed, PE (JMT): Provided concept development.		
I-66/Route 234 Park & Ride	Design Mgr., Bob Reed, PE (JMT): Developed plans for P&R facility.		
I-66 Multimodal Improvements (MMI)	Dedicated Sub, Fort Myer Construction Co. (FMCC): Prime contractor where their dedicated personnel gained in-depth understanding of the technical and logistical complexities associated with working on I-66 ITB. Utility Mgr., Matt McLaughlin, CCM (CES): Served as Utility Relocation Manager, where he assisted VDOT with development of utility relocation strategies and served as a VDOT representative for utility relocations on other roadway construction projects within this corridor.		
I-66 Pavement Rehabilitation D-B	Dedicated Sub, FMCC served as Prime Contractor for this award-winning D-B project. Dedicated Sub, Volkert served as Lead Designer & QA Firm for this award-winning D-B project.		
I-66 Active Traffic Management (ATM) D-B Project	Prime Contractor, Wagman: Served as the foundation contractor responsible for installation of over 80 reinforced shafts on this \$34M project improving 22 miles of I-66 in NOVA.		
Route 7 Widening/Bridge Rehabilitation over the Dulles Toll Road D-B Project	DBPM, Greg Andricos, PE; CM, Vincent Yuskoski; D-B Coordinator, Jerry Whitlock, PE, DBIA; and Brian Sluder, MOT Manager (Wagman). QAM, Richard Allen, PE (Quinn)		
Fairfax County Parkway Phases I, II, & IV D-B Award-Winner: VTCA & ACEC/MW	The following dedicated staff were involved in the exact same roles on this award-winning D-B project as proposed for I-66 EBW & EDA: DBPM, Greg Andricos, PE and Jerry Whitlock, PE, DBIA (Wagman). Rodney Hayzlett, PE; Ian Frost, CEP, AICP, LEED AP; Randy Boice, PE; and Jon Conner, PLA, LEED (JMT). JMT served as the Lead Designer		
I-66 Spot 1 & 2 Improvements	Utility Mgr., Matt McLaughlin, CCM (CES): Served as Utility Relocation Manager.		
I-66/Route 29 Gainesville Interchange D-B Project	Utility Mgr., Matt McLaughlin, CCM (CES): Served as Utility Relocation Manager.		

The I-66 EBW & EDA Project will benefit from the collective experience and existing relationship of these team members as the Wagman Team has already established highly effective communication protocols that ensure the efficient development, review, and implementation of a high-quality design. The Wagman Team will require no learning curve throughout any phase of this project as we are an established, well-functioning team. This team has delivered similarly challenging projects in NOVA within budget and schedule and will satisfy the I-66 EBW & EDA interim milestone and achieve final completion before Labor Day weekend 2021.



The Wagman Team's design for the I-66 Eastbound Widening (EBW) and Option-1 Eastbound Direct Access (EDA) Project builds upon our overall D-B and corridor experience to deliver overall best value to VDOT and other stakeholders as evidenced by some of the key elements of our approach to design, coordination, and construction highlighted below.



Safety Improvement Elements

- A roadside protection system that incorporates MASH-tested barriers and guardrails.
- Temporary Traffic Control design provides safe, reliable and predictable traffic flow through the project.
- Design meets AASHTO superelevation standards for 55-mph design speed.
- Engineered superelevation improvements at horizontal curves.



Operations Improvement Elements

- Provides bus travel in the right lane thru the corridor.
- Reduces impacts to Custis Trail and 4(f) park property.
- ITS/Toll systems are not interrupted during construction.
- Our TMP minimizes the number of lane shifts affecting toll collection by eliminating one of the allowed shifts at structure EB-3.



Schedule Improvement Elements

- Incorporates existing MSE wall (vicinity of B-679) into new design eliminating the need to reconstruct the entire wall.
- Minimizes lane shifts at toll gantries reduce MOT requirements.
- Achieves final completion prior to Labor Day Weekend 2021.
- Partial Depth removal for overhang widening will reduce MOT requirements.
- Project is divided into segments (based on physical drainage areas and location of existing toll gantries) to maximize the benefits afforded by the "rolling" D-B process.

Construction Improvement Elements

- Incorporates proven means and methods into the design through constructability reviews and task force meetings.
- Maintains existing MSE wall (vicinity of B-679) eliminating the need to reconstruct the entire
 wall.
- Hydrodemolition will be used on bridge modifications to reduce construction duration and noise.
- All new deep foundations will be drilled to minimize noise, vibration, and work zone footprint.
- Eliminates the need for full depth bridge deck removal and replacement adjacent to the overhang at 4 locations reducing the construction duration and temporary impacts to bicycle, pedestrian, and vehicular traffic beneath the bridge(s).



Public Acceptance Improvement Elements

- Minimizes impacts to trails and sidewalks.
- Reduces impacts to 4(f), park properties, and Custis Trail.
- Minimizes lane shifts at toll gantries reduce MOT requirements.
- Continued formal outreach to the DBE/SWaM community through our regular small business. relationship and networking roundtables.



Performance/Durability Improvement Elements

- Existing drainage systems will be analyzed and upgraded to extend service life.
- Landscaping design incorporates robust low-maintenance plantings.
- Elimination of open joints reduces long term maintenance, water/salt intrusion, and corrosion.

The I-66 EBW & EDA Project will benefit from the collective experience and existing relationship of these team members as the Wagman Team has already established highly effective communication protocols that ensure the efficient development, review, and implementation of a high-quality design. The Wagman Team will require no learning curve throughout any phase of this project as we are an established, well-functioning team. This team has delivered similarly challenging projects in NOVA within budget and schedule and will



satisfy the I-66 EBW & EDA interim milestone and achieve final completion before Labor Day weekend 2021.

4.3.1 Conceptual Roadway Plans and Description

The Wagman Team will develop a design for the roadway that meets or exceeds the design standards for the I-66 EBW & EDA Project conforming to the RFP requirements, including those listed in *Part 2*, *Attachment 2.2*. The Wagman Team will advance and refine the conceptual design from the current completion

Lead Roadway Designer, Rodney Hayzlett, PE has 10 + years working on VDOT projects with our DBPM, Greg Andricos, PE, and other key members of the Wagman Team.

level into final design, providing VDOT full confidence in the Project's long-term asset performance and durability while satisfying the needs of the traveling public.

Our design optimizes the benefits to the end user by employing detailed constructability reviews prior to each submittal and establishing task force groups with subject matter experts from our design and construction teams to perform bi-weekly over-the-shoulder reviews and expedite the development of specific design elements. This process was successfully implemented by the Wagman Team on other fast track D-B Projects. Anticipated specific task force groups for this project include: Roadway/Drainage/Permitting, Right-of-Way (ROW)/Utility Coordination, MOT/ITS/Traffic, and Structures/Geotechnical/Foundations.

Design staff will use MicroStation CADD and Geopak/OpenRoads. All our design submissions undergo a rigorous ISO-9001certified Design Quality process, which exceed VDOT requirements (*Section 4.4.3*). Electronic submissions of plans, reports, and calculations will follow VDOT's process; our staff is experienced in using FALCON and CADAC for document control, comment/responses, and submittals. The design effort will include finalizing typical sections; refining horizontal and vertical alignment including ties to existing roadways; preparing curb geometry tables; identifying geotechnical boring needs; developing ROW plans; developing special design details; and preparing plan and profile details, notes and call-outs. Roadway design efforts will be coordinated with other design disciplines including drainage design, hydrologic and hydraulic (H&H) analysis, utility coordination and design, traffic engineering, and bridge design. Input from VDOT, other reviewing agencies, and the public are expected for this high-profile project and will be a key consideration during the design process.

We have provided detailed explanations (highlighted) for the enhancements made to the RFP plans (*Volume II Conceptual Plans*). Our design concept, including proposed stormwater management (SWM) facilities, falls completely within the ROW limits identified in the RFP conceptual plans (with the exception of temporary and/or permanent easements as allowed by the RFP). Our design applies all standard and/or above standard elements (e.g., stopping-sight distance) eliminating the need for time consuming approval of additional design exceptions or waivers beyond those identified in the RFP.

4.3.1 Conceptual Roadway Plans

Conceptual Roadway Plans are provided in *Volume II* of our Technical Proposal.

Design team members recently provided services to VDOT using CADAC for general Document Control and coordination of plan reviews for multiple, concurrent D-B Projects.

4.3.1 Conceptual Roadway Description

General Geometry (A)

This section describes horizontal curve data and associated design speeds, number and widths of lanes and shoulders.

The I-66 EBW project includes adding a through lane along approximately four (4) miles of EB I-66 between the Dulles Connector Road (Route 267) and Fairfax Drive (Route 237). I-66 EDA adds an additional auxiliary lane to the existing I-66 EB exit ramp and constructing a new slip ramp from the I-66 EB exit ramp to the Route 7 southbound (SB) entrance flyover ramp.



The improvements to I-66 EBW include pavement build-ups and overlay of existing travel lanes to correct deficiencies in the existing superelevation cross-slopes meeting AASHTO standards for 55-mph design speed. Other work includes the demolition and replacement of existing shoulders with full-depth pavement, widening the road to accommodate an additional through-lane along I-66 EB for approximately four (4) miles. The ultimate typical section for I-66 will include three (3) 12-foot wide travel lanes EB except for the approach and area around bridge B-679 where the two leftmost travel lanes will be 11-foot wide and the rightmost travel lane will be 12-foot wide to accommodate buses. A minimum 4-foot wide paved shoulder will be provided to the left of traffic in addition to a minimum 8-foot wide paved shoulder to the right of traffic. Roadway typical sections have been provided in our *Volume II*

Design Elements (General Geometry Horizontal Alignment & Maximum Grade)

- ✓ **Safety.** Corrects cross-slope, achieves appropriate sight distances.
- Operations. Achieves appropriate sight distances.
- Schedule, & Construction. Maintains existing MSE wall in vicinity of B-679.
- ✓ **Public Acceptance.** Minimizes 4(f) and park impacts.

Conceptual Plans identifying the number of lanes, lane widths, and shoulder widths as required by the RFP.

Table 4.3.1A-1 presented below summarizes key geometric features for the major roadway components. Furthermore, the additional criteria listed in the RFP *Part 2 Attachment 2.2* shall be implemented. **These design elements meet or exceed the specified RFP requirements.**

Table 4.3.1A-1: Geometric Features

Tubic 4.5.111 1. Geometrie							
Roadway Name	Roadway Functional Classification	Geometric Design Standard	Design Speed (mph)	Access Control	Minimum Lane Width (feet)	Min/Max Profile Grade (%)	**Max. Rate of Superelevation (%)
I-66 Eastbound Lanes	Urban Principal Arterial	GS-5	60	Limited	12 *	0.5/6.0	4.0
Off-Ramp (Exit 68) N. Westmoreland St.	Interchange Ramp	GS-R	40	Limited	16	0.5/6.0	4.0
Off-Ramp (Exit 69) N. Washington St/Lee Hwy	Interchange Ramp	GS-R	45	Limited	16	0.5/5.0	4.0
On-Ramp (Exit 70) N.Sycamore St.	Interchange Ramp	GS-R	45	Limited	16	0.5/5.0	4.0
Off-Ramp (71) Fairfax Dr.	Interchange Ramp	GS-R	50	Limited	16	0.5/5.0	4.0
On-Ramp (Ramp A) Route 7 SB to I-66 EB	Interchange Ramp	GS-R	30	Limited	16 (1-Lane Segment) 12(2-Lane Segment)	0.5/7.0	8.0
Off-Ramp (Exit 66- Ramp B) Route 7	Interchange Ramp	GS-R	35	Limited	16 (1-Lane Segment) 12(2-Lane Segment)	0.5/7.0	8.0
Off-Ramp (Exit 66- Ramp W) Garage Connector Ramp	Interchange Ramp	GS-R	30	Limited	16	0.5/7.0	8.0

^{*}Lane width is reduced to 11ft for two left-most lanes of I-66 to reduce construction impacts to Bon Air Park Section 4(f) property from approx. Station 259+00 to Station 274+00.

Horizontal Alignments (B)

There are 16 horizontal curves along the EB alignment for I-66 within the project limits. The Wagman Team's design concept incorporates safety improvements by correcting the superelevation of the roadway to meet current AASHTO standards for 55-mph. As a result, driver comfort, drainage, and safety will all be improved throughout the project limits.

^{**}Mainline I-66 EB is designed for 55-mph superelevation.



A major advantage of our innovative design concept is the **elimination of risk of impacts related to the reconstruction of the retaining wall adjacent to the Custis Trail** near bridge B-679. The Wagman Team's concept flattens the horizontal alignment for I-66 EB from the RFP plans, thereby improving safety, while adhering to the RFP requirements for a 55-mph design speed and the required 495-feet of stopping-sight distance. The horizontal alignment shift, combined with the use of a replaced barrier/moment slab, allows for the existing retaining wall along I-66 to remain; construction impacts to the adjacent trails and 4(f) park property (Bon Air Park) are reduced; construction duration is accelerated; and construction impacts to the traveling public are reduced improving safety.

Maximum Grade for All Segments and Connectors (C)

The I-66 EBW mainline profile will be engineered to follow the existing roadway profile and meet VDOT and AASHTO criteria. Grades will be refined to accommodate corrections to superelevation and avoid full-depth pavement removal. The Wagman Team's design satisfies the RFP requirements for 0.5% minimum grade. Our design concept does not exceed the maximum proposed vertical grades for each roadway alignment (*Table 4.3.1A-1* and *Part 2 Attachment 2.2*); **actual maximum grades** are shown in tables in *Volume II Conceptual Plans*.

Typical Sections (D)

The geometry of each roadway element is described above and typical sections for each roadway element are included in *Volume II Conceptual Plans*. I-66 EBW will include three (3) 12-foot wide travel lanes EB except for the approach and area around bridge B-679 where the two left-most travel lanes will be 11-foot wide and the right-most travel lane will be 12-foot wide for buses. A minimum 4-foot wide paved shoulder to the left of traffic and a minimum 10-foot wide paved shoulder to the right of traffic are provided. Interchange ramps will have a 16-foot wide travel lane with 4-foot wide left side paved shoulder and a 10-foot wide right

Design Element (Typical Sections)

- ✓ Safety, Operations & Public Acceptance. Provides permeant (and temporary) emergency pull-off areas.
- Schedule & Construction. Maintains existing MSE wall in vicinity of B-679, eliminating full reconstruction.
- ✓ **Public Acceptance.** Minimizes 4(f) and park impacts.

side paved shoulder. Exceptions have already been granted for reduced shoulders in certain locations.

As noted above, the horizontal alignment surrounding bridge B-679 has been flattened improving safety and allows the left (inside) paved shoulder to be reduced to 6-feet to accommodate the required 495-foot minimum sight distance required for 55-mph design speed. This combined with the use of a proposed moment slab eliminates the need to replace the existing retaining wall adjacent to Custis Trail, reducing 4(f) impacts, as depicted in *Figure 4.3.1D-1*.

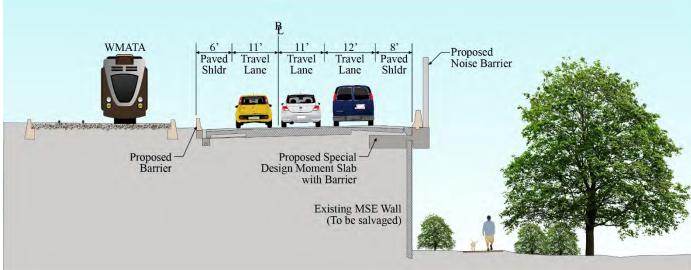


Figure 4.3.1D-1: Existing retaining wall adjacent to Custis Trail.



To improve safety, our superelevation and cross-slope corrections will incorporate pavement wedging to achieve the final cross-slopes and transitions. The existing surface course will be milled and intermediate or surface mix asphalt will be used to achieve the correction, accept temporary traffic markings, and allow traffic to run on partially completed build-up pavements if required. After the cross-slope is established, a final, uniform depth, surface asphalt will be provided in the final pavement section. Minimum cross-slopes on tangents will be set at 2%.

Emergency Pull-Off. Permanent emergency pull-off areas are provided as identified in *Volume II Conceptual Roadway Plans* at two (2) existing and two (2) proposed locations. These areas provide refuge for stranded motorists and emergency vehicles. Unsafe parking on the shoulder will no longer be necessary for stranded motorists on mainline I-66 due to the limited access, reduced right shoulder widths and closed barrier typical section of I-66. These emergency pull-offs also serve to keep the shoulder areas clear for emergency vehicles to utilize the shoulder sections at all times.

During construction, additional temporary emergency pull-off areas will be provided as required per the *Virginia Work Area Protection Manual* to promote motorist safety and a safe work zone.

Conceptual Hydraulic and Stormwater Management Design (E)

Drainage & Stormwater Management Design

Our drainage and SWM design for this project meet or exceed criteria stipulated in the RFP. Our design applies Virginia Law, the *VDOT Drainage Manual*, applicable IIM's and specifically the technical criteria outlined in Part IIC of the *Virginia Stormwater Management Program (VSMP)* Regulations for I-66 EBW and Technical Part IIB of the VSMP Regulations for I-66 EDA, Arlington County Ordinance, and the Four Mile Run Program administered by the Northern Virginia Regional Commission (NVRC).

Stormwater Drainage Design. The intent of our drainage design is to maintain the existing drainage patterns and natural divides while managing the additional runoff attributed to the increases in impervious area. One of the risks identified by the team was the hydraulic and structural adequacy of existing storm sewer network given the structure's age and the existing pipe network's ability to

Design Elements (Hydraulic & SWM)

- ✓ **Operations.** Eliminates manufactured treatment devices to maximum extent practical for easier BMP operation.
- Schedule. Early coordination with VDOT, NVRC, and Arlington County to expedite SWM approach concurrence.
- Construction. Construction and maintenance access were considered in identifying locations of the proposed BMPs.
- ✓ Public Acceptance. Minimizes impacts to private property owners and BMP footprint; also eliminates one bioretention basin.
- Performance/Durability. Future maintenance and inspection requirements were key factors in selecting proposed BMP types.

accommodate the additional flow from the proposed improvements. **To mitigate this risk, the Wagman Team has already performed a detailed analysis of the existing storm sewer network including culverts** – *Volume II Conceptual Plans* identify pipes needing repair or replacement.

The Wagman Team has identified where new structures are needed (*Volume II Conceptual Plans*). The proposed conveyance system will consist of pipe extensions, cross pipes and culverts. To mitigate the risk pertaining to structural adequacy, the Wagman Team has also reviewed the pipe inspection reports and videos that were included with the RFP package in detail and have identified pipes that have ratings of S4 and S5 to be repaired or replaced.

New and existing storm sewer systems will be used to effectively drain the proposed SWM facilities. Each drainage system has been designed and located to maintain the existing drainage patterns within each Hydraulic Unit Code (HUC) boundary, while conveying runoff to either a SWM facility or an adequate outfall. Our design minimizes impacts to adjacent properties and natural resources. (Volume II Conceptual Plans)

Stormwater Quality Management. The proposed SWM facilities along I-66 EBW are grandfathered and have been designed to be constructed in accordance with Part IIC of the *VSMP Requirements*. Performance based criteria for evaluation of stormwater quality requirements were used. Since there are two-6th Order



HUC boundaries within the project limits, pollutant load reduction requirements were determined independently within each HUC. The Station ranges for the HUC boundaries are shown in *Table 4.3.1E-1*.

Table 4.3.1E-1. HUC Boundaries for I-66 EBW

Watershed (6th Order HUC)	Starting Station	End Station
Pimmit Run (PL-24)	120+00	126+15
Four Mile Run (PL-25)	126+15	312+50

The project is anticipated to disturb no more than 40.52 acres which creates a total required phosphorous removal requirement of 12.1 lbs/yr. *Table 4.3.1E-2* summarizes the required removal for each HUC, the anticipated BMPs used to meet that requirements as well as the anticipated removal rate.

Table 4.3.1E-2. Pollutant Removal and Proposed BMP Types for I-66 EBW

HUC	Req. Phosphorous Removal (lbs./yr.)	BMP Type	Pollutant Removal (lbs./yr.)
Pimmit Run	0.1	Grass Swale	0.5
Four Mile Run	12.0	Water Quality Swales Bioretention Basin Manufactured Filtering BMPs	9.0
Nutrient Credit Purchase (Max 25%)			3.0
TOTAL	12.1		12.5

Since VDOT has already purchased 3.6 lbs/yr of nutrient credits for I-66 EBW, the Wagman Team will take advantage of these credits by strategically applying them, to the maximum extent possible (25%), reducing the number of BMPs to be constructed, reducing maintenance costs for VDOT. The proposed SWM facilities have been evaluated to minimize the number of SWM facilities and impacts to private properties which result in construction, maintenance and ROW savings for the Commonwealth. Consideration to proper ingress and egress for maintenance vehicles/equipment was performed in the identification of BMP locations. All proposed BMPs, except for the bioretention basin, can be accessed for future maintenance via the roadway shoulders. The proposed bioretention basin will have a maintenance access entrance. SWM facilities include

water quality swales and manufactured filtering BMPs with 50% removal efficiency. The Wagman Team's innovative SWM design eliminates the need for three (3) of the six (6) Manufactured Treatment Devices (MTDs) exceeding the RFPs conceptual design. Significant construction time savings and long-term maintenance cost savings will be realized.

The Wagman Team's innovative SWM design eliminates the need for three (3) of the six (6) Manufactured Treatment Devices (MTDs) exceeding the RFPs conceptual design.

I-66 EDA's SWM facility shall be designed in accordance with Part IIB of the VSMP Requirements. Therefore, Virginia Runoff Reduction Method (VRRM) was used for evaluating stormwater quality requirements. I-66 EDA improvement is located within Pimmit Run and the estimated post construction phosphorus reduction requirement is 1.6 lbs/yr. Therefore, a bioretention basin is proposed to satisfy water quality requirements for this portion of the project. **No additional nutrient credit purchases are required.**

Stormwater Quantity Management and Hydrologic and Hydraulic Analysis (H&HA). All design work will be done in accordance with the latest version of IIM-LD-195, Chapter 11 SWM of the VDOT Drainage Manual, as well as the additional standards and reference documents listed in *Part 2, Section 2.1* including; the Virginia SWM Program Law and Regulations, Arlington County Ordinance, and the Four Mile Run Program administered by NVRC.

Since seven (7) out of the eight (8) outfalls are discharging into the Four Mile Run watershed, the SWM plan must be approved by NVRC. NVRC administers the Four Mile Run Watershed Management Program to



address flood control mitigation. NVRC reviews and approves any development within the Four Mile Run watershed. NVRC has conditionally approved VDOT's RFP concept plans.

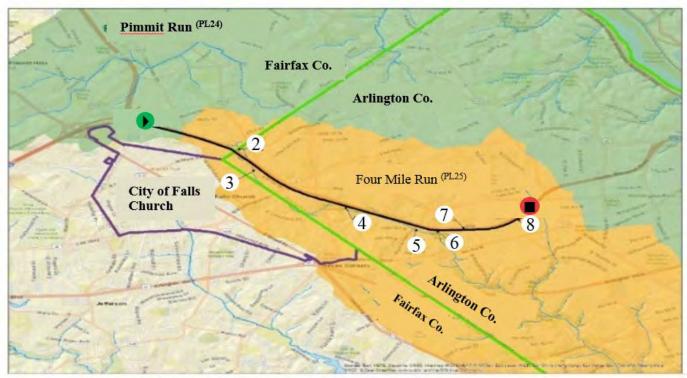


Figure 4.3.1E-1: Project outfalls within Pimmit Run and Fourmile Run Watersheds

Attenuation of the 100-year storm flows to the Four Mile Run watershed will be required. The Wagman Team has evaluated the pre and post development flows for the 100-year storm event. Findings from the analysis indicate that retrofitting the riser structure of the Sycamore Pond would decrease the 100-year flow by 22.17 CFS from the existing condition. The proposed retrofit is sufficient to mitigate the 100-year storm event and that increasing the size and/or footprint of the pond is not warranted. A summary of the analysis is shown in *Table 4.3.1E-3*.

Table 4.3.1E-3. 100 Year Flow Attenuation Analysis for Four Mile Run

Outfall No.	Pre vs Post Development, 100 Year Flow (Net Change)
2	Decrease by 0.6 cfs
3	Increase by 20.57 cfs
4	No change
4A (Sycamore Pond Retrofit)	Decrease by 45.8 cfs
5	No change
6	No change
7	Increase by 3.12 cfs
8	No change
Net Change	Decrease by 22.17 cfs

The Wagman Team has already conferred with NVRC, Fairfax & Arlington Counties regarding flooding and SWM.

Public Agency Acceptance. The Wagman Team has already engaged NVRC, Arlington County and Fairfax County in discussions pertaining to their respective agency's concerns. Arlington County will be key in reviewing SWM and drainage design and NVRC is primarily concerned with flooding in the Four Mile Run drainage basin. Fairfax County stated that they will not have direct review responsibilities for the project.



The Wagman Team has a thorough understanding of NVRC and Arlington County requirements. We will continue to perform early coordination with both entities to make sure that there is continued concurrence with the Wagman Team's approach to SWM.

In addition, channel and drainage system adequacy were analyzed and met using the *Virginia E&S Control Regulations Minimum Standard 19 (MS-19) criteria* and *Part IIC of the VSMP for I-66 EBW and Part IIB requirements for I-66 EDA*. There are two (2) types of receiving channels for this project, man-made systems (roadside ditches and piped network) and natural channels. The receiving channels were evaluated using the 2 and 10-year storm. The limits of these analyses were either where the channel enters a mapped flood plain or the drainage area is one hundred times greater than the contributing drainage area (1% of area or flow Rule). A summary of the Wagman Team's outfall analysis is summarized in *Table 4.3.1E-4*.

Table 4.3.1E-4. Outfall Analysis for I-66 EBW

Outfall No.	Watershed	1% Rule	2-year and 10-year Storm Analysis
1	Pimmit Run	NA	2-year storm will not cause channel bed erosion 10-year storm will not overtop channel banks
2	Four Mile Run	NA	No increase in 2-year and 10-year storm
3	Four Mile Run	NA	2-year storm will not cause channel bed erosion 10-year storm will not overtop channel banks
4	Four Mile Run	Yes	1% Rule Applied
4A (Sycamore Pond)	Four Mile Run	NA	Retrofit riser to mitigate 100-year storm to Four Mile Run
5	Four Mile Run	Yes	1% Rule Applied
6	Four Mile Run	Yes	1% Rule Applied
7	Four Mile Run	NA	10-year storm will be contained within the pipe
8	Four Mile Run	NA	No increase in 2-year and 10-year storm

For I-66 EDA, the outfall discharges to a manmade conveyance system. Based on the Wagman Team's analysis, the post development peak flow rate for the 2-year, 24-hour storm event will not cause any erosion of the system and no overtopping from the 10-year storm is anticipated. Therefore, Part IIB channel and flood protection requirements for manmade conveyance system will be satisfied.

Erosion and Sediment (E&S) Control

The Wagman Team will contain all sediment on-site in accordance with our E&S plans. The Wagman Team anticipates at least a two-phase E&S control plan to be required; other phases may be needed to accommodate segmented construction phasing. A Phase I and II E&S Control Plan consisting primarily of silt fencing, inlet protection and outlet protection will be developed and provided to VDOT for their review and approval. In addition, due to land disturbance on temporary construction easements within Arlington County, the E&S Control Plan for these areas will be provided to the County for their review. During any land disturbing operations, the Wagman Team will have an individual or individuals onsite holding the following Certifications; VA DEQ ESC Inspector, VA DEQ SWM Inspector, VDEQ Responsible Land Disturber (RLD) and a VDOT Erosion and Sediment Control Contractor (ESCCC) to ensure compliance with all VDEQ and VDOT E&S control plan implementation requirements.

Proposed Right of Way Limits (F)

The conceptual design for the roadway including SWM facilities will be contained within the ROW or permanent easement limits shown on the RFP Plans. Permanent utility easements and temporary construction easements will be identified as the design progresses. Upon VDOT approval land acquisition will commence. Replacement easements for utility relocations will be acquired for those with prior and/or compensable rights and currently in easements. Permanent easements will also be considered in order to provide requested access behind noise barriers. Our design only differs from VDOT's RFP conceptual ROW



limits on *Sheets 5 and 14 of Volume II Conceptual Plans* for a short section of permanent retaining wall easement. **See** *Sheet 14(1) of Volume II Conceptual Plans* for temporary construction easements (TCE) reductions.

JMT recently completed the acquisition of ROW for VDOT's Route 3 D-B Project (60 parcels) and as Wagman's Lead Design Firm for Odd Fellows Road D-B (37 parcels).



The relevant experience and depth of JMT's ROW acquisition staff is one

Design Elements (ROW)

- Schedule & Public Acceptance. The Wagman Team is already conferring with both the I-66 OTB and I-66 MMI projects about optimal best practices.
- ✓ **Public Acceptance.** Reduces Custis Trail TCE.

of the main reasons the Wagman Team can provide all the ROW acquisition services, including appraisals and appraisal reviews, required for this contract. Meeting the proposed interim and final completion date proposed herein while remaining within budget will be our priority. We will accomplish this by providing a staff that has a proven track record based on successful past performance. We have a veteran staff of former ROW agents and managers who are ROW Utility Management System (RUMS) certified and intimately familiar with VDOT

policy and procedures for the variety of ROW services required for this D-B Project. Additionally, our ROW manager, Gerald Krebs, SR/WA, worked directly with DBPM, Greg Andricos, PE, and D-B coordinator, Jerry Whitlock, PE, DBIA, to successfully acquire the ROW and easements required to deliver the Mark Center Short and Mid-Term Improvements D-B project in Alexandria, VA.

Lessons Learned. During the development of this technical proposal the Wagman Team has extensively studied the ROW requirements of this project relative to those of other projects throughout the state including various NOVA District mega-projects such as I-66 OTB. We have compiled the collective lessons learned from these ROW managers to develop a strategy to implement successful ROW clearance not only prior to completion of the project, but in advance, to support the optimized construction schedule.

Proposed Utility Impacts (G)

There is a significant amount of utilities that could impact this project. The utilities are public and privately-owned facilities that include watermains, sanitary sewer mains, fiber optic duct banks, gas mains, transmission and distribution power as well as VDOT fiber and power supplies. The systems cross the interstate and some of them run parallel to the EB lanes and the final location of the W&OD Trail bridge will determine additional locations. Additional information is included in the Utility Matrix in Section 4.4

Design Elements (Utility Coordination)

- Our team has intimate knowledge of I-66 Mainline utilities from the I-66 MMI Project.
- Operations. Proposed relocation of VDOT utilities provides for future maintenance with minimal lane closures.

It appears at this stage, that all the VDOT owned fiber optic and power supplies located parallel to the EB lanes will be in conflict with the excavation to build the future pavement.

The Wagman Team's dedicated subcontractor, FMCC, has extensive first-hand knowledge of these systems through their work on the construction of the I-66 MMI Project for VDOT and has already developed relationships with all the utility owners within the corridor. This knowledge has been incorporated within our conceptual design to provide numerous betterments inclusive of relocating utilities behind the proposed noise barriers. Locations will be verified by test pitting before plans are developed to relocate these facilities. The systems that cross the interstate should be clear of conflict on the inside widening and most of the outside widening. Further investigations, including test holes, will be made on some of the outside widening to determine if they were installed shallower. This will reduce the risk to the construction operation by avoiding "utility surprises" which could have monetary and schedule impacts.



Overhead Dominion Energy transmission and distribution systems are in close proximity to the proposed noise barrier operations as well as the pedestrian bridge. The Wagman Team's strategy is to facilitate open communication and frequent coordination between Dominion Energy, the Designers, and the construction

Our Utility Coordinator, Matt McLaughlin, has relevant corridor experience on the I-66 MMI, the I-66 Spot 1 & 2 Improvements Projects, and the I-66/Route 29 Gainesville Interchange project. management team via utility task force meetings every two weeks. This approach has been successfully performed on other D-B projects performed by Wagman and JMT.

The Wagman Team's design successfully avoids impacting all existing cell towers.

Our strategy mitigates issues with VDOT-owned fiber optic and power supplies by installing new facilities in areas that will

be out of conflict. New facilities will be mapped using the latest RFID and GPS technologies. This provides an accurate utility as-built record for both maintenance and future widening use. The cutover splicing will be coordinated with all the stakeholders to minimize impacts.

The construction of the proposed pedestrian bridge for the W&OD Trail has some inherent utility risks, but these have been substantially mitigated based on proposed relocation concepts. The AT&T conduits are close or in conflict with the bridge pier and the foundation for the MSE walls. As such, we have modified the bridge design to conform to the protection standards that were outlined by AT&T. If forthcoming test pits show that the facilities

The Wagman Team will utilize the strategies developed and implemented on the Route 7 Widening/Bridge Rehabilitation over the Dulles Toll Road D-B Project which successfully mitigated over 40 utility conflicts while maintaining project schedule.

are in a different location than that is shown on the as-built plans then further design modifications may be performed, the utility will be protected in-place or relocated. After field investigation, the final solution could incorporate some or all these methods. It is anticipated that a Dominion Energy transformer and a distribution pole will have to be relocated. This is not believed to be a significant impact to land rights or the schedule. There is also a Cox Communication coax cable that will have to be placed underground to avoid the bridge and then reattached to the relocated Dominion Energy pole. The *Addendum 3* change to the proposed location of the pedestrian bridge successfully avoided conflicts with the water main, sanitary sewer main, gas main and the other underground CATV/fiber optic cables.

While I-66 EBW does present a number a utility challenges, there is nothing anticipated on this project that the Wagman Team has not successfully resolved on other complex projects with the region. Our approach is based on proactively identifying and mitigating utility conflicts from pre-investigation through design development and construction operations.

Noise Barrier Locations (H)

Noise barriers will be designed to meet the requirements determined as a result of the Final Noise Analysis process. Foundations for walls must consider varying conditions: ground mounted with drilled foundations, bridge mounted behind concrete traffic barriers, and noise barriers mounted on existing retaining walls including a new moment slab. All noise barriers will be backed with a minimum 10-foot maintenance path accessible from local streets. See *Volume II Conceptual Plans*.

Trail Horizontal and Vertical Alignment (I)

Sidewalks and Shared Use Paths. See Volume II Conceptual Plans. We have exceeded the requirements of the RFP by refining the Custis Trail alignments while accommodating a design speed of 12-mph; all other trails, including the W&OD Trail, will accommodate a design speed of 18-mph. Sidewalks will be designed to contribute the ADA requirements. Design MOT and

Design Elements (Trail Alignment)

- Construction. Our approach eliminates the need to reconstruct the MSE wall (vicinity B-679).
- ✓ **Public Acceptance.** Reduces impact the 4(f) and park property.

designed to comply with ADA requirements. Design, MOT, and construction staging affecting pedestrian, bicycle, and equestrian facilities will be coordinated with VDOT and local jurisdictions.



Sidewalks and shared use path connections to the W&OD Trail near bridge B-680 shall conform to the Landscape Concept Plan rendering provided by VDOT.

Other Key Project Features (J)

Traffic Control Devices

ITS/ETC Design Concept. The existing traffic management systems and the new electronic toll collection systems (termed "ITS elements" through this proposal) are critical for the management of traffic through the corridor. Since the corridor interlocks with the OTB portion of I-66, I-495, Route 110, and Washington, DC, mobility in and around the Metropolitan Washington Region is heavily dependent on the corridor functioning efficiently.

Design Elements (Other Key Features)

- ✓ **Operations.** Relocate ITS communication and power outside proposed noise barrier, maintaining operation for duration of project.
- Construction. Wagman Team's experience with existing ITS system on I-66 ATM and I-66 MMI.

The existing communications system for the ITS elements runs along both the left and right shoulder through the project area with crossings at various points that cross the EB and WB lanes of I-66 as well as the Metrorail in the median. The Wagman Team has confirmed that the frames and covers for the vaults for these crossings can be adjusted to the proposed grades and will not need to be replaced.



Figure 4.3.1J-1: ITS Communications Systems crossings.

The distribution fiber cables for the detection and CCTV subsystems run along the left shoulder at the western end of the project and conflict with the first phase of our work to complete this project. The Wagman Team plans to relocate these facilities out of the way of the I-66 EBW project prior to approval for construction. As explained in *Section 4.5*, our plan is to proceed with construction along the inside of the corridor first and then transition to the outside. As such, our ITS element relocation work will be done using temporary shoulder closures in advance of the roadway work,

similar to a conventional utility relocation prior to roadway expansion work. The downtime for any component will be limited to the switch-over time from old to new in a matter of a single event during an overnight work period.

The ramp metering system in place at the ramp from Sycamore Street may be impacted by the work. If impacts cannot be avoided, we are dedicated to maintaining the existing system through all stages of construction.

A significant part of our plan for the ITS communication system is to relocate the appropriate communications and power distribution lines behind the proposed noise barriers. This will allow the system to remain in an area that will not be impacted by foreseeable future work

Our MOT plan minimizes the number of lane shifts that would impact the tolling system. Our MOT plan involves only two (2) toll shifts during construction and one (1) final shift. The Wagman Team's ongoing relationship with the toll system integrator enhances our ability to coordinate and

execute these shifts efficiently, effectively, and with little to no impact on toll revenue.

Our team will ensure that access for maintenance is available for VDOT ITS and power systems through access panels and junction boxes.



The Wagman Team includes Elite Contracting (Elite) who currently has a contract to maintain the existing electrical and communications systems throughout northern Virginia, including I-66. This addition to our team gives us a unique insight to these critical elements of the project which will allow us to maintain the existing and connect the new components efficiently and quickly.

The Wagman Team includes Elite who currently has a contract to maintain the existing electrical and communications systems throughout NOVA, including I-66.

The toll collection system, including the toll gantries (EB-2 and EB-3), have been installed outside of the roadway work area and is not anticipated to be impacted during the work. The Wagman Team's intricate knowledge of the system allows us to know exactly where the facilities are. These systems will remain active through the construction period.

Lighting Design Concept. The Wagman Team has reviewed the LED lighting I-66 EBW concept provided with the RFP and have determined that the overall concept is in accordance with the goals and requirements of the RFP. The widening performed by this project will impact most of the existing lighting infrastructure including conduits, cables, poles and service panels. Like the ITS, the Wagman Team will schedule the work to limit any downtime to the existing lighting system and will provide temporary lighting in merge and diverge areas where lighting is needed for the safe movement of traffic. The Wagman Team will also locate the power facilities outside of potential future work areas. Lighting concepts for I-66 EDA are in *Volume II Conceptual Plans*.

Additional Roadway Design Concept

Barrier/Guardrail Design Concept. Where appropriate, new guardrail and traffic barriers used on this project will be MASH-compliant for enhanced safety. All substandard guardrail/barrier within the I-66 EBW Project Limits along I-66 EB and within the I-66 EDA project limits shall be upgraded to meet current standards including segments on connecting roadway to the nearest logical termination point.

Pavement Design Concept. The Geotechnical Data Report (GDR) provides several different minimum pavement sections including pavement sections for the I-66 EBW & EDA which are shown in *Volume II Conceptual Plans*. Final pavement designs will be determined subsequent to collection of more detailed geotechnical data.

Superelevation corrections will require pavement wedging to achieve the final cross-slopes and transitions. Minimum cross-slopes on tangents will be set at 2%. The existing surface course will be milled and intermediate or surface mix asphalt will be used to achieve the correction to accept temporary traffic markings and allow traffic to run on partially completed built-up pavements if required. After the cross-slope is established, a final, uniform depth, surface asphalt will be provided in the final pavement section.

Surveying

Our success lies in the fact that we take safety very seriously, especially working in and around limited access corridors and interstate highways. Similarly, JMT performed surveying and subsurface designation of a 7-mile corridor of I-66 OTB. Our field staff coordinated with VDOT's Operation Center, the NOVA District Survey Manager, and the contractors also working to the east and west of our corridor in the daily performance of our field work. The coordination with the contractors involved sign placement and ensuring safety protocols were in place as well as assuring there was enough overlap between project boundaries for the field work. In short, a safe work zone was created and there were no safety-related accidents or delays over the course of the project. Our survey effort will be coordinated with VDOT's LCAMS.

In order to minimize impacts to the traveling public, the Wagman Team employs reflector-less technologies within our conventional total stations or scanning instruments. We will employ a mobile scanning system capable of collecting pavement elevations to survey grade, while driving with moving traffic. The mobile scanner can be driven at night when traffic volumes are at their lowest to minimize impacts to traffic. Through the use of the scanning technologies, JMT will develop a survey representing the existing pavement surface in 3-D, to validate the VDOT-supplied data and design this project using OpenRoads.



However, there will be times when the surveyors will have to directly access the roadway to collect elevations or features that are obscured from the scanner. We are very mindful of the impacts of the work zone, we reinforce each safety protocol implemented through advanced notification to VDOT and our contracting partners.

Geotechnical

General Conditions. The site is generally along the boundary of the Piedmont and Coastal Plain Physiographic Provinces and is underlain by variable amounts of existing fill soils overlying residual materials of either the Sykesville or Indian Run Formations. These formations consist of residual soils that are predominately fine sandy silts and silty sands with traces of mica that have developed in-place from the weathering of the underlying migmatite, micaceous schist, and gneiss bedrock. The weathering occurs in an irregular fashion and creates a zone of decomposed or 'disintegrated' rock that can possess rock-like qualities and can extend to a significant depth. Eastern portions of the project alignment may be underlain by alluvial and/or Terrace Deposit soils.

During the preliminary subsurface exploration, bedrock was encountered along the project alignment at variable depths ranging from about 15-ft to 86-ft below the existing ground surface. Rock excavation is not expected throughout the majority of the project alignment, with the exception of the installation of new drilled-in-place foundation systems for support of the new bridge foundations.

Groundwater was encountered during the preliminary subsurface exploration at depths ranging from 8 to 58-ft below the ground surface. Long-term stabilized groundwater readings ranged from about 10 to 48-ft below the ground surface. Groundwater is not expected to impact the majority of the project construction.

Wagman maintains local supervision, craft and equipment required to self-perform the installation of all foundation types anticipated for this project. Foundation types will be selected to minimize noise, vibration, and work zone footprint, including but not limited to: drilled piles, augercast piles, micropiles, and drilled shafts with either slurry or casing. These same team members have successfully completed similar drill foundations on the I-66 corridor (I-66 ATM D-B and I-66 MMI Projects).

Approach. A total of 106 standard penetration test borings were drilled as part of the GDR prepared by VDOT. However, additional borings and pavement cores will be required in order to meet the requirements of VDOT's Chapter 3 of the Materials Division MOI. The exploration program will be sufficient to identify and assess the geologic materials and groundwater conditions within the project limits. Anticipated additional borings will be needed for roadway widening and pavements, bridge widenings and new foundations, noise barriers, retaining walls, SWM basins, new or extended culverts (36 inches in diameter or larger), and traffic signs.

The GDR provides several different minimum pavement sections including pavement sections for I-66 EBW & EDA. Accordingly, our approach includes the necessary soil laboratory testing to support the project pavement designs including additional CBR tests. The pavement sections for the I-66 EBW presented in the GDR consists of 10-inches of asphalt, overlying 6-inches of CTA and 6-inches of cement stabilized soil or of 10-inches of asphalt, overlying 6-inches of cement stabilized soil and 6-inches of CTA or 10-inches of asphalt, overlying 12-inches of CTA. Underdrains will be provided where required by the VDOT MOI.

The GDR indicates that unsuitable soils will be encountered more frequently along the western portion of the project alignment, roughly from Station 130+00 to Station 175+00. The soils along this portion of the alignment at proposed pavement subgrade elevation generally were considered unsuitable due to being highly plastic as well as being soft/loose and exhibiting SPT N-values of less than four (4). The supplemental subsurface exploration will be used to further define the extent of unsuitable soils along the project alignment included, but not limited to, at pavement subgrades, retaining and noise barrier wall foundation subgrades, and fill embankment subgrades. The extent of unsuitable soils will be provided in the final geotechnical engineering report as well as in the roadway cross-sections to aid the contractor and project QC in identifying these areas prior to construction and to streamline subgrade preparation and evaluation.



Modifications to the superstructure, extension of abutments, and/or construction of new piers will be required to accommodate the I-66 widening at the Williamsburg Boulevard Bridge, Westmoreland Street Bridge, N. Sycamore Street Bridge, and the I-66 Bridge over Custis Trail and Bon Air Park. The as-built plans indicate that the existing bridge foundations are supported on either cast-in-place piles, spread footings, or steel H-piles. The supplemental subsurface exploration and analyses will be used to provide foundation recommendations for the new foundations resulting from the I-66 widening; however, we generally anticipate that recommended foundations will match the existing with the exception of structures supported on steel H-piles as the driving of piles will likely result in excessive vibrations on the adjacent WMATA structures. Following our supplemental subsurface exploration, which will include additional borings at the bridge abutments and piers, we will perform analyses to determine the effects of the proposed widenings on the existing foundations as well as to determine foundation systems that will limit differential settlements of the bridge foundations.

Landscape Design

The landscape design for this project will implement Context Sensitive Design/Solutions to reflect the aesthetics of the project corridor. Our design emphasizes appropriate landscape provisions that enhance safety and visual appeal for those using and living along the highway corridor. Using native plant species indigenous to the area, disturbed areas within the project limit will be vegetated

Design Elements (Landscaping)

✓ Performance/Durability. Lowmaintenance strategies will be implemented and safe long-term access to various project elements will be incorporated into the design.

in accordance with the specifications defined in the *Landscape Architecture Design Report and Requirements* and in conformance with the Conceptual Landscape Plans. Where necessary and appropriate, coordination with the Arlington County Department of Parks and Recreation and NOVA Parks will occur to facilitate that work associated within Bon Air Park and W&OD Trail Property is reviewed by the appropriate agencies. Fencing, noxious weed control, and urban nutrient management requirements defined in the project specifications will be met.

Coordination with all design disciplines involved in the project will be critical to achieve a successful planting design for the project. In particular, coordination with SWM design, environmental compliance and permitting, and utility design is important since these disciplines have the potential to significantly impact landscape design for the project. Similarly, project implementation, including phasing and construction methods will be considered during design so that preservation of, and minimization of impacts to, existing vegetation along the project corridor can be effectively accomplished during project construction.

Future maintenance of the vegetation on the project will be a critical consideration in the design of the landscape. The landscape design team will ensure that effective, timely communication regarding landscape issues occurs throughout the duration of the project. **Our design will implement low-maintenance strategies and provide for safe long-term access to the various project elements.**

Public Acceptance and Outreach. The Wagman Team has led over 100 public meetings in NOVA and will actively pursue public outreach and acceptance throughout the design and construction of the project.

4.3.2 Conceptual Structural Plans and Description

4.3.2 Conceptual Structural Plans

Please see the conceptual Structural Plans are provided in Volume II.

432 Conceptual Structural Narrative

The Wagman Team has exceeded the minimum requirements of the RFP and all structural plans will conform to the RFP designs and meet or exceeded the criteria set forth in the RFP as well as *AASHTO*

Design Elements (Structural)

- Safety. Minimizes duration of construction utilizing innovative construction techniques.
- ✓ **Performance/Durability.** Use of link slabs to eliminate existing deck joints.

LRFD Bridge Design Specifications (7th Edition) and VDOT Modifications as identified in VDOT I&IM



S&B80 (including the Additional Foundation Criteria-Attachment 2.3), and VDOT standards. The designs will focus on emphasizing low maintenance alternatives, ease of inspection, and constructability. MOT for all phases will be coordinated with the TMP. Load rating for each structure will be prepared and provided prior to any phase of a structure being opened to traffic, in addition to final as-built load ratings.

Modifications to Eastbound Structures

Modifications to the EB structures will include widening for capacity, as well as overhang reconstruction to accommodate the addition of noise barriers, joint eliminations, and the installation of under bridge lighting and bridge conduit system for lighting and VDOT communications. These structures will also be repaired in accordance with the RFP and the most current bridge safety inspection reports. All design will carefully consider any potential impacts to the adjacent WMATA structures and guidance in the WMATA "Adjacent Construction Project Manual".

I-66 EB over Williamsburg Boulevard (B-675) is a 3-span steel girder bridge with seven (7) existing girder lines. One additional steel girder line will be added on the median side, including the addition of a pier column at both existing piers and widening of both existing abutments to support the new girder line. The existing deck joints at the piers will be eliminated

Structures B-675 and B-677 incorporate link slabs to meet VDOT's low maintenance goals.

by utilizing link slabs, to satisfy VDOT's low maintenance goals. The outside overhang will be replaced to install a new parapet and noise barrier. The Wagman Team will employ an innovative method to eliminate the need for full depth removal and reconstruction of the interior bays as detailed on *Figure 4.3.2-2*. Vertical clearance will not be adversely impacted by this additional widening.

I-66 EB over Westmoreland Street (B-677) is a 3-span steel girder bridge with seven (7) existing girder lines. One additional steel girder line will be added on the median side, including the additional of a pier column at each of the existing piers and widening of both abutments to support the girder line. The existing deck joints at the piers will be eliminated by utilizing link slabs, to achieve a low maintenance configuration. Vertical clearance will not be adversely impacted by this additional widening.

I-66 EB Over Sycamore Street (B-678) is a 2-span continuous concrete box girder bridge with 5 girder lines. The median side will be widened to accommodate the desired additional lane. The widening will be accomplished by utilizing steel tub girders with internal stiffeners and partial concrete fill to achieve equivalent stiffness. This meets the RFP and subsequent communication regarding non-use of shapes to accomplish the widening, while avoiding the use of concrete box beams. Box beams are currently prohibited for use on the interstate system per the S&B Manual (*Vol. 5, part 2, Ch. 12*). The pier will utilize a single drilled shaft with a column and cap in a hammerhead configuration to support the additional girder line, which minimizes excavation and potential impacts to utilities.

I-66 EB over Bon Air Park (B-679) is a single span 3-line steel tub girder bridge. The entire deck will be replaced on this structure, which will be in addition to widening of the superstructure to the inside and slightly to the outside. The MOT configuration was closely coordinated with the Traffic Engineers and the CM, Vincent Yuskoski, to ensure that the deck construction joints were located on the girder flanges. Please refer to *Section 4.5.2* for the proposed configuration. The inside widening will be accomplished with steel a single plate girder and will maintain sufficient space between the WMATA bridge and the widened portion. The outside (right) widening will be accomplished via a slightly extended overhang, and no additional girder line will be required. This will match the roadway geometrics and shoulder.

W&OD Trail over Lee Highway (B-680). The Wagman Team's approach to design and construction of the W&OD Trail Pedestrian Bridge minimizes impacts this bridge work will have on the traveling public while satisfying the Project objectives and completion dates. The proposed concept for the bridge demonstrates a thorough and well-integrated approach in both design and construction.

The design of the pedestrian bridge will be performed in accordance with AASHTO's LRFD Guide Specifications for Design of Pedestrian Bridges, 2nd Edition, 2009, including interims through 2015 and



VDOT Modifications. In addition, the design will meet the specific unique requirements described in the *RFP Part 2* and RFP conceptual plans.

The construction of the pedestrian bridge will be performed in a manner to minimize impacts to the traveling public such as vehicles along Route 29 and local roads, pedestrians and cyclists on the W&OD Trail and Route 29, and public transportation and emergency response providers. Excavations for foundation construction will be clearly defined and protected. Drilled-in deep foundation systems will be evaluated to minimize vibrations and avoid impacts to surrounding structures. Erection of superstructure elements will be performed in low traffic time periods to provide a safe construction site while minimizing impacts to the traveling public.

The Wagman Team has considered the types of materials, methods, and functionality used to reduce the need for future inspection and maintenance providing VDOT full confidence in the bridge's long-term asset performance and durability. Highlights of these considerations for long-term performance include:

- Providing a jointless bridge anticipated to be a Virginia abutment to meet bridge length and curvature characteristics.
- Use of low permeability concrete.
- Use of lightweight aggregate concrete (LWAC) in the superstructure elements. LWAC provides both a more durable and less permeable concrete than normal weight concrete.
- Use of corrosion resistant reinforcing (CRR) steel in superstructure and substructure neat elements.
- Support of all girders by bearings that accommodate anticipated loads and movements.
- Not incorporating any fracture critical members, truss structures, post-tensioning, or a fiber-reinforced polymer (FRP) deck as stated in the RFP documents.
- Providing the required vertical clearance above Route 29 and pedestrian areas as well as the required vertical separation to electrical conductors above the bridge.
- Providing a 30' minimum horizontal clearance from Route 29 to avoid using bridge pier protection while minimizing potential impacts from vehicles.

The Wagman Team also understands that it is critical that the public be satisfied with the proposed bridge and has incorporated the following elements with this goal in mind:

- Incorporating elements and details as shown in renderings presented to the public during the meeting held on June 13, 2017 into the design.
- Use of open, concrete V-piers.
- Use of MSE walls with aesthetic finish and color around the abutments and along the approach fills.
- Maintaining the RFP plan span configuration to provide "openness" in the vicinity of surrounding structures
- Maintaining the span over Route 29 to avoid using bridge pier protection while providing an "open" environment under the bridge.
- Using drilled-in foundation system to minimize ground vibrations and disturbances to adjacent structures such as the historically significant Benjamin Elliott's Coal Trestle, the hotel property, and the residential apartment building.

Wagman specializes in self-performing drilled foundation systems including auger cast piles, micro piles, drilled shafts, and predrilled piles.

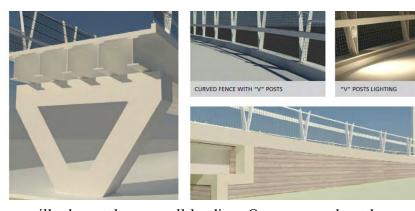
- Using an aesthetically pleasing "grey" color on superstructure and substructure elements.
- Providing a minimal superstructure depth that meets live load deflection criteria and vertical clearance requires while also providing a graceful structure silhouette.
- Providing a unique railing and fence system with lighting satisfy both safety and aesthetic considerations.





Hiking & Biking Trail No. 4 over I-66 (B-681). Modifications to this Hiking & Biking Trail Bridge include the relocation of Pier 3 to accommodate the widening of I-66 EB. The new pier is anticipated to consist of 2 drilled shafts located laterally outside of the footprint of the existing pier to avoid conflicts with the existing footing. The existing superstructure will be analyzed and strengthened/modified

Figure 4.3.2-1: Open Pier



as necessary to ensure the superstructure will adequately carry all loading. Once engaged on the new pier and bearings, the existing pier will be removed in accordance with VDOT specifications, and pier protection will be installed.

Modifications to Westbound Structures

The WB structures consist primarily of replacement of the outside overhangs to accommodate proposed noise barrier replacements. The RFP's proposed concept required the removal and replacement of the first interior bay in addition to the overhang. However, the Wagman Team developed a concept which eliminates the need to replace the entire deck in the first exterior bay of each bridge. The Wagman Team's innovative approach uses deep hydrodemolition to remove concrete, allowing for the installation of additional reinforcement as determined by structural analysis of the addition of the noise barrier and the yield line analysis of the barrier section due to the extension of the overhang past the 0.3 ratio to the beam spacing. The elimination of the demolition of the deck slab in the first exterior bay, installation of formwork and recasting of the deck slab, will reduce construction duration and risk to bike, pedestrian, and vehicular traffic beneath the bridge.

An additional benefit of this innovative approach is the mitigation of risk to utilities, as there are utilities present in the exterior bay on Williamsburg Boulevard (B-682) and Westmoreland Street (B-683). Removal of the deck would have exposed these utilities to risk during demolition operations. The Wagman Team's



innovative approach eliminates this risk, as no full depth demolition of the existing deck in the first exterior bay for these structures is required.

I-66 WB over Bon Air Park (B-684) is a single-span tub girder with an 8'-3" exterior bay and a variable overhang. This option proposed by our design eliminates complications related to bracing of the tub girder and other constructability challenges associated with removal of the deck on the first exterior tub girder.

I-66 EB Ramp A over Route 7 (B-686) is a 2-span steel girder with four (4) existing girder lines. One additional steel girder line will be added on the south side, including the additional of a pier column support to the proposed girder line. The proposed column is located in a narrow median in the high traffic corridor of Route 7. The foundation type will be selected to ensure ease of construction and minimize disruption to traffic. Additional repairs will be performed on the

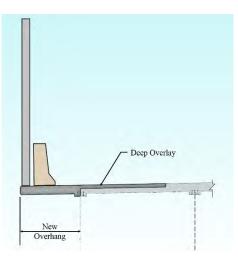


Figure 4.3.2-2: Deep overlay

structure in accordance with the RFP and current bridge safety inspection reports, and the slope protection will be extended to accommodate the widening.

Retaining Walls & Major Drainage Structures

Culverts. The roadway widening and MOT configurations have resulted in a design concept that has eliminated all culvert extensions on the project. This has significantly reduced the impacts of construction duration as well as environmental impacts to the streams.

Minimizing risk to existing utilities and traffic impacts by using partial depth hydrodemolition.

Retaining Walls. Several locations throughout the project will require retaining walls to minimize impacts to adjacent facilities and avoid additional ROW impacts. Six (6) locations throughout the project limits have been identified, from the RFP concepts. Each location has been evaluated to identify the most appropriate type of wall from a constructability standpoint.

The most notable is the wall at B-679 (Bon Air Park). The RFP plans anticipated the rebuilding of this wall due to the widening of the roadway to the outside. The Wagman Team's concept avoids the reconstruction of this MSE wall, and the constructability challenges associated with it, the most significant of which would have been the temporary support of I-66 in excess of 18' while the new wall was constructed. The minimal widening to this side of I-66 EB will be accomplished by replacing the moment slab with a special design moment slab that incorporates the minimal widening. This innovative solution avoids the impacts to 4(f) park property and Custis Trail below, as well as the lengthy construction time to replace the wall.

The list of retaining walls is included in the table below. (Volume II Conceptual Plans)

Table 4.3.2-1: Retaining Walls

Anticipated	Anticipated Retaining Wall Type		Traffic Direction	Retaining Wall Length (ft)
	Standard RW-3	3	EB	52
	Modified MB-8A	5	EB	151
	Soldier Pile Wall	7 (Ramp I)	EB	479
I CC EDW	Soldier Pile Wall	8	EB	684
I-66 EBW	Special Design Moment Slab*	14	EB	328
	Special Design Moment Slab*	14	EB	341
	Special Design Moment Slab*	14 & 15	WB	1,350
	Special Design Gravity Wall	15	EB	50
I-66 EDA	MSE Wall/Noise Barrier replacement	4 (I-66 EDA)	EB	199

^{*}Mitigated retaining wall reconstruction

Section 4.4

Project Approach













4.4 | PROJECT APPROACH

The Wagman Team has thoroughly reviewed the RFP documents. Our integrated approach to managing the I-66 EBW & EDA project throughout its lifecycle from design through construction and ultimately final acceptance is summarized below. Our approach is compliant; we have developed appropriate plans based on our team's extensive experience performing design and construction for VDOT and the NOVA District.



Safety Improvement Elements

- Enhances railing and fence system with lighting for W&OD Trail.
- Extension of stop work authority to all project personnel onsite.
- A roadside projection system that incorporates MASH-tested barriers and guardrails.
- A safe and easily understood Temporary Traffic Control design.
- No additional waivers needed beyond those identified in the RFP.



Operations Improvement Elements

- Provisions are provided for bus travel in the right lane thru the corridor.
- ITS/Toll systems are not interrupted during construction.
- Our MOT minimizes the number of lane shifts affecting toll collection.



Schedule Improvement Elements

- Rolling D-B process (refer to 4.7.2)
- Duration of work at Custis Trail shortened.
- Partial Depth removal for overhang widening will reduce MOT requirements.



Construction Improvement Elements

- Incorporates anticipated means and methods into the design through constructability reviews and task force meetings.
- Maintains existing MSE wall in vicinity of B-679.
- Partial Depth removal for overhang widening reduces noise, vibration, and construction duration.
- Teams experience with I-66 MMI Project.



Public Acceptance Improvement Elements

- Minimize impact to trails and sidewalks.
- Reduces 4(f) and park impacts.
- The permanent foundation will be designed using low-vibration and low-noise systems (micropile, drilled shaft, etc.) in lieu of conventional driven piles. Low impact pile driving for noise and vibration.



Performance/Durability Improvement Elements

- Existing drainage systems will be analyzed and upgraded to extend service life.
- Robust plant selection for low maintenance landscaping.
- Eliminates open joints reduces long term maintenance, water/salt intrusion, and corrosion.

4.4.1 Environmental Management

The Wagman Team has developed a comprehensive integrated approach to environmental management, and environmental permitting that anticipates, avoids, minimizes and mitigates potential impacts to resources/areas of concern and anticipates and mitigates for potential delays to the project. The Wagman Team's project schedule integrates the environmental activities and key milestones into the overall schedule. Several strategies to expeditiously secure the environmental permits have been implemented to mitigate any potential delays to delivery of the I-66 EBW & EDA projects.

Approach to Environmental Management during Design and Construction

The Wagman Team will use proven environmental management strategies that we have implemented on other successful D-B projects in Virginia to meet the environmental/NEPA commitments on the project.



These management strategies will help to secure required environmental permits and approvals expeditiously so that the project's schedule is not delayed, and is constructed in compliance with the environmental requirements. JMT will take the lead on the environmental permitting and environmental management on behalf of the Wagman Team. We will employ similar environmental management strategies used for other complex Virginia D-B projects in the line of the Parete 2 Wildering D-B projects

Our Environmental Compliance Matrix identifies:

- ✓ Required environmental permits
- ✓ Environmental commitments
- ✓ Amendments and the Environmental Assessment/FONSI and the EQ 103
- ✓ Categorical Exclusion for I-66 EDA

including the Route 3 Widening D-B in Culpeper, the Odd Fellows Interchange Improvements D-B (Wagman/JMT Team) in Lynchburg, and the Fairfax County Parkway Phases 1, 2 & 3 D-B in Fairfax.

Strategies and mitigation Methods are summarized below:

Streamline NEPA re-evaluation by avoiding disturbance outside existing ROW. Our design avoids expansion of the ROW from that in the RFP Conceptual Plans, and we do not expect to expand the Area of Probably Effect (APE) from that studied in the NEPA documents. As our design progresses, we will minimize the limits of disturbance, study area, and ROW so they do not expand beyond the APE; thereby avoiding additional NEPA studies and avoiding project delays.

Environmental Management Plan During Design. The Wagman Team has prepared a preliminary Environmental Management Plan (EMP) which identified areas of environmental concern, recognized environmental conditions, identified required environmental permits, and documented the environmental commitments made in the contract documents (RFP with addenda, the preliminary EQ 103, and the Environmental Assessment/FONSI for the I-66 EBW and Categorical Exclusion for the I-66 EDA). The Wagman Team will use this EMP to monitor environmental permit acquisitions and approvals, track

The Wagman Team will stay within the limits of disturbance, study area, and ROW as stipulated in the Environmental Assessment/ FONSI and RFP.

environmental activities in the Project schedule, and assist with environmental compliance.

The EMP identifies areas of environmental concern which are illustrated in *Table 4.4.1-1* below. For example, for the W&OD Trail it describes required measures to minimize and avoid

adverse impacts to the 4(f) resources. The EMP lists environmental deliverables such as the need to provide VDOT with a set of the final plans for DHR review to document avoidance of the W&OD Railroad Historic District. The EMP will be expanded to include identification of new noise barriers that could be required by the final Noise Analysis Design Report. In addition, it identifies and will track the need for replacement of existing noise barriers in disrepair and the existing metal noise barriers as well as define the timing requirements for construction of the noise barriers.

Environmental Training During Design and Construction. Before construction begins, our environmental team will assist Wagman in developing a comprehensive project specific Environmental Health & Safety Plan. Initial half-day training session regarding environmental management and compliance will be provided to all construction personnel. The training session will include which resources require complete avoidance, which resources required mitigation measures including fulfillment of NEPA commitments, and discuss compliance issues associated with environmental permits. A video of the training will be used as refresher training during construction and incorporated into new project personnel and subcontractor orientation. We seek to instill an environmental culture that will heighten awareness by each individual on the Wagman Team to environmental conditions, resources, and commitments in order to minimize potential risks due to environmental non-compliance. Wagman successfully implemented and executed an aggressive environmental compliance plan on the ICC D-B projects, these projects received regional and national environmental compliance recognition.

Approach to Environmental Permitting During Design and Construction

The Wagman Team will use the following approach to environmental permitting during design and construction to minimize potential risks due to environmental non-compliance.



Complete Environmental Resource Surveys/Analysis Early in the Design. The Wagman Team will coordinate with the regulatory/consulting agencies to determine if additional special status species studies are required, and complete any additional environmental studies early in the project schedule. Based on the RFP and Addenda, we know that a bat inventory is required in accordance with VDOT's Bat Inventory Guidelines for Bridges and Buildings. We will complete required additional environmental studies (i.e. cultural resource surveys, wetlands and WOUS) shortly after NTP to incorporate construction access, borrow sites, and staging and laydown areas. Early in the design process, Phase II Environmental Site Assessments will be conducted for the five (5) properties identified in the RFP as well as necessary asbestos inspections. Early coordination yields early completion of these items which will be critical to avoid potential delays in the project schedule.

Develop Avoidance and Minimization Measures Early in the Design. The Wagman Team will hold a workshop to get agency "buy-in" on the avoidance and minimization measures early in the design process. This will help to identify potential agency concerns early in the design process and mitigate the associated risks. We will seek to avoid or minimize wetland and stream impacts during the design process. We have already successfully reduced the wetland and stream impacts associated with our Conceptual Plans, from those identified in the RFP. We will continue to analyze and implement additional cost-effective avoidance and minimization measures in order to mitigate potential risks due to project permitting.

Early Agency Involvement in Design. We will begin agency coordination with the permitting and other consulting agencies (EPA, USFWS, NMFS, DHR, DGIF, DCR, VDACS, & VIMS) immediately upon NTP to proactively address avoidance and minimization measures and to get "buy in" for the mitigation measures and compensation requirements. Our proactive approach will verify that the permits are "reasonable" and do not present conditions or limitations that negatively impact the constructability of the project. We will establish an introductory meeting then schedule frequent coordination meetings with the effected agencies.

Identify Suitable Mitigation Early in the Design. The Wagman Team will work with the regulatory agencies to find acceptable compensation for unavoidable impacts to jurisdictional wetlands and waters. The Wagman Team has already consulted with the approved banks in the appropriate HUC codes to verify that available credits for the types of potential wetland and stream impacts are available. In addition, we will get concurrence from the agencies that compensation for temporary wetland impacts will not be required. These actions will help assist in obtaining a timely permit process and minimize the potential risk construction delays due to permitting.

Environmental Permit Compliance Monitoring during Construction. If required by the Water Protection Permit or Section 404 permit, the Wagman Team will continuously monitor environmental compliance during construction activities. The compliance monitoring will be conducted in accordance with the terms and conditions of the issued permits.

The combination of Bioretention Basins for I-66 EBW & EDA and several Water Quality Swales allowed the Wagman Team to eliminate 3 out of 6 RFP Manufactured Treatment Devices, which can result in significant initial, operational, and lo ng-term maintenance cost savings for the Commonwealth.

If continuous compliance monitoring is not required as a condition of the permits, **the Wagman Team will conduct monthly compliance monitoring during construction** to verify that the environmental permit conditions are being met. Required E&S control and SWPPP compliance inspections and SPCC inspections will be completed during construction. The Wagman Team will notify VDOT of any non-compliant situations and suggest remedial alternatives for resolution. Exclusion fencing will be used along the boundary of sensitive resources or areas of concern to prevent potential impacts from construction activities beyond the expected limits of disturbance. This exclusion fencing will protect resources including the non-impacted wetlands, the W&OD Trail, Bon Air Park/Curtis Trail, and the W&OD Railroad Historic District.

Environmental Conditions/Area of Concern and Mitigation Strategies

The Wagman Team has identified environmental conditions within the project area, analyzed the risk of impact to that environmental condition/area of concern, and identified mitigation strategies to ensure that we



do not cause adverse effects to the environment condition or resource. *Table 4.4.1-1* summarizes this analysis.

Table 4.4.1-1. Environmental Conditions Mitigation Strategies

Table 4.4.1-1. Environmental Conditions Mitigation Strategies				
Environmental Condition/Area of Concern	Mitigation Strategy			
Section 4(f) Resources	 Ensure design plans incorporate required minimization and mitigation measures, and coordinate final design plans with VDOT for VDOT to coordinate with FHWA to maintain de minimis impact to 4(f) resources; W&OD Trail, Bon Air Park, and Curtis Trail. Include 4(f) Resources as design constraints in the EMP and environmental training. 			
Noise	 Complete and furnish a final Noise Analysis Design Report (NADR) and final design noise analysis and required certification in compliance with the effective VDOT State Noise Abatement Policy, VDOT Highway Traffic Noise Impact Analysis Guidance Manual, and VDOT Noise Report Development and Guidance Document. Design and construct noise barriers recommended by FHWA, Chief Engineer and Noise Abatement Design Report. Design and construct existing noise barriers in disrepair and existing metal barriers. Complete noise barrier construction in accordance with the scheduling requirements in the RFP and Addenda. Implement temporary noise mitigation measures if nighttime construction occurs. 			
Historic Properties	 Implement the required vibration control and monitoring per Special Provision, interpretive sign on the pedestrian bridge, and connection to the picnic shelter/seating area for the Benjamin Elliott's Coal Trestle per the RFP and Addenda. Coordinate with NOVA Parks. Coordinate with VDOT regarding DHR's review final design plans in the vicinity of the W&OD Railroad Historic District/Benjamin Elliot's Coal Trestle. Coordinate with VDOT regarding proposed borrow, staging, laydown, and access sites if they are within the viewshed of the 5 historic properties within the Area of Potential Effect and for the I-66 EDA project. Include these five properties as environmental constraints within the EMP and include in the environmental training to ensure they are not impacted by construction. 			
Threatened and Endangered Species	 Conduct bat inventory per the VDOT Bat Inventory Guidelines. Coordinate with VDOT and USFWS/DGIF if exclusionary devise would be used for bats. 			
Wetlands and WOUS	 Early coordination/consultation with USACE, DEQ, and possibly VMRC on avoidance and minimization in a workshop. Notify VDOT/regulatory agencies 14 days prior to the start of construction in jurisdictional areas and at the end of construction. Evaluate and incorporate avoidance and minimization measures through agency workshop. Develop restoration approaches for temporary impact areas. Early preparation of Joint Permit Application concurrent with ROW Plan development. 			
Hazardous Materials	 Compliance with Section 411.09 in the 2016 Road and Bridge Specifications for Type B structures and VDOT Special Provisions for asbestos inspection and abatement. Conduct a Phase II ESA in accordance with the Special provision for the 5 properties identified in the RFP. Perform asbestos inspections on structures and lead paint inspection on barriers. Prepare a project specific SPCC Plan. Remove and dispose of any discovered hazardous material in compliance with all applicable federal, state, and local regulations. 			

Project Schedule Integration with Environmental Milestones

Obtaining environmental permits and environmental approvals in a timely manner is always a schedule and pre-emptive priority for any project because construction cannot start in jurisdictional areas until permits are issued. As described below and in *Section 4.7 Project Schedule*, the Wagman Team has integrated these critical environmental activities into our proposed schedule.

Integration of Environmental Activities with Project Schedule. Our Proposal Schedule includes all the environmental milestones, hold points, and environmental activities to ensure that these activities and their projected durations are integrated in the schedule and tracked.

Integration of Environmental Milestones into Project Schedule. We have integrated key environmental permits, environmental hold points, and approval activities into the project schedule, including:



- Hold points for environmental permits and Phase II ESAs
- JPA application preparation and submittal
- JPA application review and issuance of environmental permits
- VPDES General Permit issuance and preparation of SWPPP
- EQ103, EQ200, EQ201 reviews
- Nationwide Permit 6 (NWP) application for test piles and geotechnical borings
- NWP 6 issuance for geotechnical borings and test piles
- Wetland delineations, cultural resource surveys, and special status studies for construction access points, laydown, borrow sites and staging areas
- Phase II Environmental Site Assessments prior to ROW acquisition
- Bat inventory
- Avoidance and minimization workshops
- Environmental permit compliance monitoring

The Wagman Team will track environmental activities throughout the design and construction phases to promote rapid permit acquisition thus preserving the integrity of the overall project schedule and delivery.

4.4 Utilities

As noted in *Section 4.3* the I-66 EBW presents a number of challenges related to utilities. However, there is nothing anticipated on this project that the Wagman Team has not successfully resolved on other complex projects within the region. Our approach to utility coordination is based on proactively identifying and mitigating utility conflicts beginning pre-bid and continuing through early field investigation, design development, refinement, and physical construction operations. On VDOT's Route 7 Widening/Bridge Rehabilitation over the Dulles Toll Road D-B Project, the Wagman Team proactively elected to provide and install the infrastructure (fourteen individual conduits with pull cable, hangers, and associated hand boxes) across the new bridge and through the approach roadway for the existing utilities (including Cox and AT&T) to relocate into. This was done to maintain the project schedule, with all costs to the account of the Wagman Team in lieu of waiting for the private utilities to perform this work at prorated cost based on their availability.

Approach to Potential Utility Conflicts and Mitigation Measures

The figure below is an excerpt for the comprehensive utility conflict matrix developed by the Wagman Team showing utilities identified as being in conflict. Upon award, the team will perform field investigations required to verify any assumption made during development of this matrix. We will continually refine the matrix to monitor the evolution of our design and further mitigate conflicts beyond those measures already identified.

Figure 4.4-1– Excerpt from I-66 Utility Conflict Matrix (conflicts only)

Location	Route No.	Shoulder/ Median/B arrier	Committee of the Commit	Risk Level	Solution	Method	Notes
			MULTIPLE	SEGMENTS	S		
Light Poles	I-66 EB	shoulder	Street lights	low	Relocate	Rebuild	
Noise Barriers	I-66 EB		Dominion Energy Transmission	Low	modify design/const		Modifications to design and engineering controls during construction will mitigate need to relocate.
			SEGM	ENT 1			
Station 134+75 to 152	I-66 East Bound	Inside shoulder	VDOT Power and Comm 2- 2" and 2-4" conduits	low	Relocate	rebuild	
Station 142+50	I-66 East Bound	crossing	VDOT Power and Comm 2=2" and 2-4" conduits	low	Relocate	rebuild	
Station 122+50 to 172	I-66 East Bound	Outside shoulder	VDOT Lighting Power 2-2" conduits	low	relocate	rebuild	
Station 130+25 to 132	I-66 East Bound	Outside shoulder	VDOT Toll Power and Comm 2-2" and 2-4" conduits	low	relocate	lower in place	



As previously noted in *Section 4.3* the Wagman Team has identified six (6) utilities that are potentially in conflict, two (2) of which are VDOT-owned communication and power.

The Wagman Team has spent a substantial amount of time coordinating with the four (4) private utilities potentially in conflict with the project and revising our design accordingly. As such, we have successfully reduced the anticipated number to private utility relocations down to only two (2); this reduces the risk to the overall project schedule.

Our team has already worked with AT&T to develop conduit protection measures in lieu of a full relocation. If post bid field investigations reveal that these agreed upon measures will not work as proposed, we have already worked out an alternate relocation scheme with AT&T (*Sheet S-19 Volume II Concept Plans*).

While our proposed design does not directly conflict with Dominion Energy Transmission (DET) lines we do have a strategy in place with DET to further coordinate design and construction that will allow construction of the noise barriers and B-680 in close proximity to their facilities.

The only anticipated direct conflicts with private utilities are in the vicinity of B-680. Construction of this bridge along the required alignment will result in minor relocations to a Dominion Energy (DE) Transformer and utility pole. This pole relocation results in relocation of a Cox Communication line that shares the pole. Both of these conflicts are considered to be low risk to both cost and schedule.

The most substantial relocations required by the project are associated with VDOT communication and power facilities that run parallel to I-66 EBW and the outside of B-686 and Ramp A of the I-66 EDA. The Wagman Team has drawn upon our extensive experience in the corridor to develop a relocation strategy that moves the VDOT utilities to the outside of I-66 EB and out of the roadway footprint. This approach was successfully implemented on the I-66 MMI project. Additionally, this relocation strategy can be implemented immediately upon approval of our SWPPP and TMP plans, prior to completion of final design, improving the construction schedule. The Wagman Team will apply this same approach to the TransCore ITS systems that will require relocation within the project limits.

Integration of Utilities into Schedule

The Wagman Team has incorporated the known private utility relocations into our proposed project schedule and allotted appropriate time for; the utilities to complete their Plan & Estimates (P&E), VDOT & Wagman Teams review and authorization of the P&Es, and the required procurement and physical relocations. The Proposal schedule does not add specific design activities for the VDOT owned utilities that required relocation for this project as this design is performed as part of the overall design. Activities for construction of the relocation are incorporated into the schedule to show this work as part of the pre-RFC construction activities.

4.4.2 Structures

The Wagman Team will utilize the structures expertise of Volkert and JMT engineers to develop quality structural design plans which will incorporate the Wagman Team's considerable experience, common-sense engineering, and innovation to deliver sustainable facilities. Plan development will continue to focus on the respective solutions to complex design and constructability issues efficient

Our design team is a leader in providing Complete Streets solutions that help define bridges and transportation facilities that address the locally-desired context.

solutions to complex design and constructability issues efficiently and cost-consciously with particular attention to future maintenance and sustainability considerations.

General Approach. The Wagman Team's approach to structure design emphasizes long-term, low-maintenance designs while simultaneously integrating the sequence of bridge construction with the roadway MOT to minimize lane shifts and ensure optimal constructability thereby decreasing disruption to traffic as well as providing for expeditious construction.



This project will involve construction adjacent to existing facilities, widening of existing bridges, and construction along WMATA ROW for the length of the project limits. The Wagman Team has already anticipated conceivable conflicts and our proposed designs for each site will not merely accommodate but minimize these potential impacts to adjacent facilities and traffic (vehicular, bicycle, and pedestrian). Careful consideration has been taken to assure the reasonable movement of all modes of traffic during the construction phase while recognizing the ultimate performance parameters of the delivered structures to the future traveling public. The Wagman Team will select appropriate foundation types to minimize the need for shoring and construction space while achieving compatibility with the existing foundations. These foundations will exclude driven pile to reduce vibration, noise and work zone footprints. The high-volume of traffic on and under I-66 creates the risk of conflict between traffic and construction operations.

General Schedule. All structures (including bridges, retaining walls, noise barriers) in the I-66 EBW are committed to be completed and accepted prior to the Interim Milestone Date established in Section 4.7. The bridge, retaining wall, and noise barriers included in I-66 EDA will be completed and accepted prior to the Final Completion Date established in Section 4.7. In order to minimize noise impacts to nearby properties, the Wagman Team will schedule noise barrier construction to comply with the detailed restrictions for sequence of removal, delivery, and replacement stipulated in the RFP. Additionally, we will focus on constructing the noise barriers early in the overall schedule to provide increased benefit, early public acceptance and reduced both construction and long-term noise impacts. Wagman successfully utilized this same approach in both ICC D-B Projects.

Long-Term Performance and Durability. The Wagman Team will design and construct bridges, retaining walls, noise barriers and other structures that adhere to the requirements of the RFP and VDOT standard practices that provide long term low maintenance designs. Our designs will seek to minimize water and roadway salt intrusion to promote long-life solutions. Noise barriers will be placed behind traffic barriers to avoid damage during snow removal and a maintenance path will be provided to allow easy inspection of the rear of the noise barriers.

The Wagman Team has developed an innovative widening approach consisting of partial depth hydrodemolition to be applied on most bridges. Wagman has safely and efficiently used hydrodemolition in over 50 projects in the past 20 years. This approach will minimize risks to traffic below the structures while reducing construction duration, and providing VDOT full confidence in the Project's long-term asset performance and durability.

Our approach will minimize risks to traffic below the structures while reducing construction duration, and providing VDOT full confidence in the Projects long-term asset performance and durability.

W&OD Trail Pedestrian Bridge and the Arlington Gateway Feature. Arlington County planners have identified the area surrounding Lee Highway and the W&OD Trail crossing as a future gateway into the historic parts of the County. Arlington County plans to transform this area into a walkable neighborhood center that will serve as an economic and social hub with public spaces and alternative modes of travel. They envision streetscape enhancements including wider pedestrian zones, street plantings associated with specific open space elements that encourage and facilitate public gatherings. A key feature will be the proposed W&OD Trail Pedestrian Bridge and other associated features.

Wagman Team's approach to design and construction of the W&OD Trail Pedestrian Bridge hinges on refining the concepts developed during VDOT's public charrettes into a viable, functional bridge providing long-term durability and low maintenance along with aesthetics. A select subgroup of our team including Complete Street specialists, landscape designers, structural engineers, pedestrian ADA experts, roadway designers, lighting designers, and constructors will lead our efforts for this key project location. The location and alignment of the bridge offers many physical constraints but also offers many contextual opportunities such as the adjacent historic Coal Trestle and the associated former railroad use for the corridor. In addition to the bridge as a major feature, this gateway-type location also includes the blending of noise barriers, MSE walls, landscaping, and a decorative sidewalk system to establish an urban Pubic Open Space. Continued involvement by Arlington County, the Northern Virginia Regional Park Authority, and the general public is



expected including the requirement for a public meeting to present the preliminary bridge design prior to initiating final design. Our role will sometimes be to temper expectations when other constraints require the compromising of a stakeholder's desires. Detailed review and approval of materials may be required – we would invite VDOT to help serve as an intermediary for review and approvals of subjective aesthetic elements.

The design of the pedestrian bridge will be performed in accordance with AASHTO's *LRFD Guide Specifications for Design of Pedestrian Bridges, 2nd Edition, 2009*, including interims through 2015 and VDOT Modifications. In addition, the design will meet the specific unique requirements described in the RFP Part 2 and RFP conceptual plans. Locations of piers and abutments will be selected to preserve the original concept yet avoid underground utilities when possible. Pier types and abutments not only will be designed to comply with the selected aesthetics but also to meet VDOT standards for avoidance of joints and provide long-term durability.

The Wagman Team understands that it is critical that the public be satisfied with the proposed bridge and has incorporated the following elements with this goal in mind:

- Providing design elements and details as shown in renderings presented to the public during the meeting held on June 13, 2017.
- Using open, concrete V-piers to preserve open pedestrian views under the bridge.
- Using MSE walls with aesthetic finish and color that provide depth and texture that help create visual interest.
- Maintaining the RFP plan span configuration to provide "openness" in the vicinity of surrounding structures.
- Maintaining the span over Route 29 to avoid using bridge pier protection while providing an "open" environment under the bridge.
- Using drilled-in foundation system to minimize ground vibrations and disturbances to adjacent structures such as the historically significant Benjamin Elliott's Coal Trestle, the hotel property, and the residential apartment building.

Wagman specializes in self-performing drilled foundation systems including auger cast piles, micro piles, drilled shafts, and predrilled piles.

- Using an aesthetically pleasing "grey" color on superstructure and substructure elements to consolidate features and help define the public space.
- Providing passive recreation features such as benches and a mixtures of surfaces.
- Providing pedestrian scale lighting on and under the bridge to enhance public safety.
- Providing directional signs for bicyclists and pedestrians.
- Providing a minimal superstructure depth that meets live load deflection criteria and vertical clearance requires while also providing a graceful structure silhouette.
- Providing a detour for trail users to minimize inconvenience during construction and provide a safer route past on-going work.
- Providing a unique railing and fence system on the bridge with lighting for both safety and aesthetic considerations.

The construction of the pedestrian bridge will be performed to minimize impacts to the traveling public such as vehicles along Route 29 and local roads, plus maintain pedestrians and cyclist on the heavily traveled W&OD Trail. A detour will be provided on local streets to avoid interrupting travel on the trail (*Volume II Conceptual Plans*). Work areas will be clearly defined and protected. Drilled-in deep foundation systems will be used to minimize vibrations and avoid impacts to surrounding structures. Erection of superstructure elements will be performed in low traffic time periods to provide a safe construction site while minimizing impacts to the traveling public.

Retaining Walls. Retaining walls will be provided at several locations within the project limits. Wall types will be selected for each location based on the respective constructability issues and potential impacts to adjacent facilities. Wall types could include MSE walls, standard gravity walls, soldier-pile and lagging walls with concrete facing, or other types of walls that minimize impacts to adjacent facilities. **Our approach mitigates the need to reconstruct the retaining walls adjacent to B-679.** Construction



of structures will be coordinated with WMATA based on final conditions of WMATAs Adjacent Construction Permit.

Noise Barriers. Locations for noise barriers will be determined during completion of the Final Noise Abatement Design Report which includes public polling to determine final acceptance of a specific wall. Barrier types and aesthetics will be as stipulated in the RFP and the Special Provision for Noise Barrier Walls Architectural Features. Noise barriers to be mounted on bridges will be lightweight with sound absorptive finishes on the roadway side and be a color complying with the RFP. A 10-foot wide clear area will be provided to grant access to the back side of noise barriers within right of way or permanent easements and access will be provided. Our construction sequence will abide by the scheduling restrictions stipulated in the RFP and look to expedite their installation in order to minimize temporary noise impacts to nearby properties.

4.4.3 Quality Assurance/Quality Control (QA/QC)

Introduction

The I-66 EBW & EDA will be constructed with a solid commitment to meet the specified quality requirements and providing VDOT full confidence in the Project's long-term asset performance and durability.

The Wagman Team's past experience on D-B Projects has led to the development of a proven Quality Program that provides complete comprehensive procedures which address all phases of project process, from design to construction and through final acceptance.

Our QA/QC approach has been customized to incorporate all the requirements of VDOT's Minimum Quality Control & Quality Assurance Requirements for Design-Build & Public-Private Transportation Act (PPTA) Projects dated January 2012 (hereafter VDOT's Minimum QA/QC Requirements Manual), and has recently been enhanced to address QCIP criteria.

The Design-Builder, Wagman Heavy Civil (Wagman), in conjunction with their Construction Quality Control Consultant, CES, and Quality Assurance Consultant, Quinn Consulting Services, Inc. (QCS), will provide a finished product that meets the requirements of the contract documents and shall ensure that all materials provided for construction are approved for incorporation into the project and tested at the appropriate frequencies as prescribed in, *VDOT's Minimum QA/QC Requirements Manual*.

Organization and Management Control

Per the project organization chart, the following individuals and organizations will have primary responsibility for implementing the Quality Assurance (QA) and Quality Control (QC) program for Construction. Design-Build Project Manager (DBPM), Greg Andricos, PE; Construction Manager (CM), Vincent Yuskoski; Quality Assurance Manager (QAM), Richard Allen, PE, DBIA; Quality Control Manager (QCM), Avtar Singh, PE, CCM, PMP, DBIA; QC Inspectors and QC Laboratory; QA Inspectors; QA Testing and Laboratory.

The QAM reports directly to the DBPM and has the authority and responsibility to stop any work not being performed in accordance with the contract requirements or lacking the QA/QC documentation necessary to substantiate that the work meets the contract requirements. He is independent of all actual construction operation activities. The QAM will determine and report to VDOT whether the materials and work comply with the Contract Documents. The Quality Assurance team will consist of the QAM, QA Senior Inspector, QA Field inspectors as required, and an independent QA laboratory. These QA staff are likewise independent of all construction operations.

The Quality Control staff will report directly to the Construction Manager. The QC team will consist of the CM, QCM, Field Inspectors and Laboratory Testing personnel from an independent QC laboratory who will be utilized on an as-needed basis throughout the project. **See detailed Quality Staffing Plan in the QA/QC sections below.**



Construction Manager (CM) Role. The

CM will manage the Construction Quality Control Program and will coordinate with OAM for the preparatory, intermediate, completion, and punch out inspections. He will also meet with the DBPM, QAM, and QCM to discuss any quality issues and implement any recommendations to correct the issues. He will attend all meetings with the DBPM and the QAM as necessary to resolve any issues. The CM will ensure that all project daily reports and other requested information are sent to the QAM for his approval. The CM will also assure that all QC documentation is furnished to the QAM within 24 hours of receiving the information or the next business day.



Quality Control Manager (QCM) Role.

The QCM will represent the Quality Control team on site and will report to the Construction Manager while reporting all QC sampling, testing, visual inspections, certifications, and daily diaries directly to the QAM. The QCM will oversee staffing needs, QC field/laboratory testing requirements, and will generally assist the CM in the administration of the QC inspection program.

Assisting the QCM will be various QC inspection personnel. All QC inspectors will be VDOT experienced and certified in the area of their inspection or testing. The QC inspection staff, totally independent of the QA staff, will consist of senior inspectors, regular inspectors, materials testing technicians and trainees as the workload dictates. The identity of the QC inspection staff and their corresponding resumes and certifications will be provided to the QAM prior to the start of each work activity.

The respective, QA and QC inspectors for each activity will be identified at the activity preparatory meetings and their respective resumes and certifications. Copies of all inspector certifications will be maintained in the QA/QC project documentation records.

4.4.3 Design Phase Quality Assurance/Quality Control

Design quality will be measured by how well we meet the goals established for this project. This includes meeting all criteria defined in the RFP, the project concept, and the project schedule as described in this Technical Proposal. The design must provide safe operations with reduced construction and property impacts while at the same time producing a final product within budget and on schedule.

A key component of our design approach is to provide internal QA/QC measures that do not rely on VDOT to ensure quality; it's our job to do it right.

Quality is a process that starts from the beginning of the project and is carried through to all phases. It isn't something that can be added at the end by simply filling out a checklist. Our goal is to do the design correctly, the first time. This requires coordination and effective communication with all design and construction personnel. One of the great benefits of the D-B process is gained from close coordination between the DM and the CM. Our D-B Coordinator, Jerry Whitlock, PE, DBIA will hold bi-weekly constructability reviews and coordination will take place involving the design and construction staff on the Wagman Team.

The DM, Robert Reed, PE, will be responsible for all aspects of design, including implementation and oversight of the design QA/QC processes. Mr. Reed will provide the leadership to establish the proper climate and process for delivery of a quality design and will communicate this to the design discipline leads and the Wagman Team. Mr. Reed will oversee the development of the Design QA/QC Plan, and establish that the



plan demonstrates a well-structured process with easily audited documents to simplify the review and coordination required by VDOT. He will ultimately certify that the design QA/QC process is satisfactorily completed and documented in conformance with Contract Documents and Standards prior to formal VDOT submittal.

Design Quality Control

At the initiation of the design effort, qualified staff will be assigned to each technical discipline. Each submittal will have an internal QC check by qualified designers not directly working on the plans. This includes reviews by senior staff, many of which are former VDOT employees with applicable expertise gained within the Department. Tools such as the VDOT Quality Control Checklist, Form LD-436, and other internal checklists with help the QC staff comply with all vital aspects of the design.

Certificate of Approval Johnson, Mirmirman and Thompson, Inc.

JMT is ISO 9001:2015 Certified, which represents a continued commitment to exceed expectations by providing quality work to our clients.

Elements of a detailed QC review include:

- Checking engineering computations and corresponding design assumptions.
- Checking math, geometry, and spelling.
- Checking technical accuracy.
- Reviewing form, content, and organization.
- Evaluating the suitability and compatibility of materials.
- Reviewing for coordination with other design disciplines.
- Reviewing the sequence of construction.
- Verifying conformance to contract requirements, VDOT and other stakeholders design standards and specifications, special provisions, and applicable portions of the Design QC Plan.

Documentation of the QC activities also includes using a plan check stamp on each sheet as plans are reviewed. A date of review and initial are also included on the document. Should the design team need to address any comments from a review, they will also initial the check stamp box below the QC reviewer along with the date, and indicate that the comment was addressed by marking the comment with blue highlighter or pen. These documents are kept in project files, allowing for easily audited documents.

Design Quality Assurance

Compliance with all QC procedures will be periodically audited by our qualified QA staff identified in this Technical Proposal. In addition to the audits, the QA staff will provide oversight to ensure the criteria and goals established in the RFP are met.

Design QA reviews look at the "big picture" during the design phase of the project. These reviews assess whether the design has been correctly conceived, all relevant factors have been considered, and that the appropriate disciplines were utilized. The Wagman Team has identified Cesar Vargas, PE, to assist the DM in the facilitation of QA reviews for all aspects of design. Mr. Vargas will independently monitor work quality, code compliance, and conformance to relevant standards. In addition, he will be responsible for periodic QA reviews throughout the design process, prior to each phase of design submission, and through the construction phase.

Prior to any VDOT submittal, Mr. Vargas, PE will perform a design OA review of completed documents, and confirm that the constructability, QC, and comment resolution processes are complete. His review will include "Big Picture" items such as:

- Assessing whether qualified personnel were assigned to the design and QC tasks.
- Evaluating whether the designer used the proper design methodologies and applied the correct analyses.
- Evaluating whether the solution is practical and cost effective.
- Evaluating whether the design is within an appropriate range based on experience and preliminary estimates.

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- Assessing whether the design, plans, specifications, and special provisions are complete.
- Verifying adherence to the contract requirements and stated design objectives and goals.
- Complete the QA Review segment of the design checklist.

If a QA review identifies an element in the design (e.g., engineering computation, plan drawing, specification, report, etc.) that they feel does not meet the design criteria of the project, then the element will be returned to the design team for further review and correction as necessary. The design team will address the QA Reviewer's comments, make corrections as necessary, and develop written responses. Corresponding QA/QC reviews will then be completed.

Upon successful completion of all Design QA/QC reviews for a submission, the design documents will be certified by the DM, QAM, and DBPM prior to submission to VDOT. Following receipt of review comments from VDOT the design submission will be returned to the design team, if necessary, and revisions made for further QA/QC reviews as described above.

Design QA Independent of Design QC. The Design QA/QC Process described above clearly states how the QA activities will be performed independently of QC activities. Design Quality Control managers will perform detailed reviews prior to any QA activities. The design QA manager will perform subsequent, broad reviews to confirm that QC reviews and the comment and resolution process are complete. Prior to submission to VDOT and Stakeholders, the Design QA manager will perform a final review to ensure that all QA/QC activities have been performed. This process will be documented which also facilitates audits by VDOT or external ISO staff.

Design QA/QC Staffing Plan

A key role of our DM, Bob Reed, PE, will be to oversee and certify the quality program for the design disciplines and firms serving the Wagman Team. He has performed this role as a consultant for VDOT on major projects including the Elizabeth River Crossing, multiple reviews under a NOVA District Plan Review contract, and most recently three pavement rehabilitation projects in the Hampton Roads District. The Design Manager will be assisted by a Design QA Lead (Mr. Vargas, PE) who will monitor, audit, and document that QC measures are fully implemented and any comments by VDOT are fully resolved; we anticipate that this role will be full-time during key submittal phases. QC reviews will be performed by qualified engineers or scientists not otherwise engaged on the task to be reviewed; these roles will be part-time and occur in association with each submittal.

A QC reviewer will be assigned for each discipline reflected in a submittal. QC reviewers will coordinate their comments with the design staff to acquire concurrence with each comment and provide final verification that a comment has been incorporated. The review process will be documented along each step by the QC reviewer, the lead engineer, the production staff responsible for the change and finally verified by the QC reviewer that the change was incorporated. Documented QC reviews will be in turn be reviewed by the Design QA Lead and certified by the DM prior to submittal to the DBPM and QAM and prior to submitting the corrected documents to VDOT.

Example of QA/QC Procedures for One Design Element

The use of lane shifts to facilitate construction along I-66 EBW, between the Dulles Connector Road and Fairfax Drive

The use of lane shifts to facilitate construction along I-66 EBW, between the Dulles Connector Road and Fairfax Drive, will be an essential MOT strategy for inclusion in the TMP for this project. Given the inherent constraints of the existing corridor, as well as those related to the I-66 tolling system currently being installed, the Wagman Team has identified the minimization of lane shifts during construction as a key project element requiring careful planning, scheduling, and coordination to reduce impacts to the traveling public, on-site construction personnel, and TransCore.



The project scope includes the widening of I-66 EB to incorporate an additional through lane by utilizing varying portions of the existing inside and outside shoulder areas throughout the corridor. The existing shoulders lanes will be reconstructed to include full-depth pavement so the lane may ultimately be converted into a third travel lane. To facilitate this work, the reconstruction of the existing shoulders will require shifting of travel lanes left and/or right from their existing alignments to establish work zones within the project corridor. This will be accomplished by placing concrete barrier along the edge of the travel lanes and/or shoulders to maintain a safe separation between the construction work zones and the vehicles traveling along I-66 EB. Establishment of temporary pavement, shoulder strengthening, slope corrections and installation of temporary drainage in the form of trench drains and/or barrier slots may be required, including a full review of spread. In addition, coordination of portions of the project that contain narrow roadway sections with steep

A fundamental Design Goal for the MOT is to restrict the number of temporary lane shifts affecting the tolls to no more than 2. embankments, retaining walls, noise barriers and transmission lines in close proximity to traffic and work zones.

Within the project limits, TransCore is nearing completion of tolling equipment installation on gantries

along I-66 EB near Great Falls Street and N. George Mason Drive, respectively. These gantry structures are a significant consideration with regards to the lane shifts as the tolling facilities will be operational throughout the construction of this project. Accordingly, each time a lane shift occurs as a result of the I-66 EBW, TransCore will need to adjust the tolling sensors to align with the appropriate travel lane. This being the case, the number of lane shifts utilized on this project will have a direct impact on construction-related costs. Lane shifts will potentially move traffic closer to the gantry structures which may necessitate the placement or relocation of barrier to protect vehicles along I-66 EB, yet simultaneously allowing enough area for the shoulder construction to be completed. For these reasons, our Sequence of Construction and MOT plan have been developed to minimize the number of lane shifts. The Wagman Team has restricted the number of temporary lane shifts to a maximum of two. Details and guidance for these lanes shifts will also be provided as a part of the project's Transportation Management Plan (TMP) as described in *Section 4.5.2* of this Technical Proposal.

QA/QC Procedure. The QA/QC process is critical to the design of the lane shifts and subsequent successful construction of this design element. The review of the MOT requires close coordination between roadway design, drainage design, geotechnical design, structural design, and utility coordination. The following design and QA/QC procedures for this element will be implemented:

- Layout concept design
- Develop initial MOT/TMP plan
- Over the shoulder review of plans by construction team and design team
- Field verification of MOT plans vs Existing Conditions
- Revisions to plans as required
- Production of revised plans following internal design QC guidelines
- Independent design QC review of revised plans including construction team
- Post-QC updates to plans
- Design Manager approval
- Design Quality Assurance Manager Review
- Design Quality Assurance Manager Revisions or Approval
- Design Manager release for submittal after QAM Approval
- Project QAM certification of the Design QA/QC process
- DBPM release for submittal

Moving the known large volumes of traffic safely and efficiently through the work zone is of paramount importance. The design and use of lane shifts will be closely monitored and coordinated with all disciplines. Strict adherence to the design QA/QC process thoroughly verifies conformance with Contract Documents, considers the ramifications of this design element on other design elements (and the converse), and addresses potential constructability issues to support the feasibility of this design element and its contribution to successful project delivery.

VDOT

Minimum Requirements for ality Assurance and Quality Control on Design Build

and Public-Private Transportation Act

Issued January 2012

VDOT GOVERNANCE DOCUMENT



4.4.3 Construction Phase Quality Assurance/Quality Control

Project Quality Management Plan

The purpose of the Project Quality Management Plan (PQMP) is to establish clear and complete procedures for inspection of construction and testing of materials to ensure that the completed project meets the requirements of the approved contract documents and provides a long-lasting, low-maintenance end product, and minimizes the likelihood of additional VDOT QA/QC, contract administration efforts and increases **VDOT's confidence in the Wagman Team's process.** The inspection and testing elements will conform to Minimum Requirements for Quality Assurance and Quality Control on D-B and PPTA Projects - January 2012 (VDOT's Minimum QA/QC Requirements Manual) and other documents which include VDOT's Materials Division Manual of Instructions, Construction Manual, and applicable Virginia Testing Methods (VTM's).

Quality Assurance

The proposed QAM, Richard Allen, PE, DBIA with Quinn Consulting Services (QCS), and his QA inspection staff are independent of the Designer, QC, and the Contractor. The QAM is responsible for providing quality assurance of the work and ensuring conformance with the Contract Documents. The OAM and OA inspection staff are responsible for providing independent assurance inspections and verification of material sampling and testing duties, independent of QC activities, in accordance with the rates and frequency of testing prescribed in Appendix 3, Table A-3 of VDOT's Minimum QA/QC Requirements Manual. The QA inspection staff will provide periodic observation and monitoring of the performance of field materials tests performed by the Wagman Team's QC staff. The QAM and QA inspection staff shall comply with all safety requirements mandated by the Design-Build Contractor, Wagman.

The QAM will facilitate Preparatory Inspection Meetings (PIMs) prior to the start of any new work activity.

PIMs will be classified as hold points in the construction schedule. PIM attendees, to include; the QAM and his relevant QA field inspection staff, VDOT representative(s) to include the Project Construction Manager and Owner Independent Assurance (OIA) and Owner Verification Sampling and Testing (OVST) personnel (at their discretion), Design-Builder's Project Manager, Construction Manager, field superintendents, safety personnel, subcontractors, and relevant QC personnel involved in the work to discuss and develop a clear understanding of the plan of operations, testing procedures, and acceptance requirements.

VDOT Minimum Requirements for Other project stakeholders will be invited and encouraged to attend and QA & QC on D-B and PPTA Projects participate as these meetings. At these meetings, the proper inspection checklist (developed by the QCM and reviewed by the QAM or as available in Appendix 6 of VDOT's Minimum QA/QC Requirements Manual by default) to be used for monitoring the work will be identified and distributed to meeting

attendees. Witness and hold points will be identified at each PIM and their schedules will be distributed in conjunction with the Contractor's weekly project look ahead schedule. VDOT will be notified of the time and place of witness and hold points, should VDOT decide to have a representative attend the inspection. The QAM will finalize PIM minutes and distribute to all attendees and other project stakeholders that could not be in attendance.

The Wagman Team has delivered positive results using VDOT's new D-B CPE and CQIP initiatives on Route 7 Bridge Rehabilitation and Odd Fellows Road D-B Projects. On Route 7 D-B Project in particular, Greg Andricos, PE (DBPM) and Richard Allen, PE (QAM) have consistently delivered CQIP Scores over 90% for the NOVA District.

Manual have been satisfied. All testing equipment shall

The QAM will be responsible for overseeing and directing the independent QA testing technicians who will perform on-site materials testing. QA materials tests are then compared to QC results to ensure that they are within the tolerances established by VDOT's Road & Bridge Standards and that the minimum testing rates as set forth in VDOT's Minimum QA/QC Requirements

4.4 - 14 Wagman Heavy Civil



be certified and calibrated with proper documentation on file in the project records. All QA/QC inspections and tests shall be performed by properly certified inspectors and the QAM will confer with the QCM to review testing results and procedures throughout the prosecution of the work.

All QA inspection staff shall complete inspector daily reports (IDR's) and QA testing reports of all quality assurance inspections in accordance with *VDOT's Minimum QA/QC Requirements Manual*. The QAM will determine and report to VDOT whether the materials and work comply with the approved drawings, specifications, and applicable Standards as outlined in the Contract requirements and any other applicable specifications and documents. The QAM shall also ensure that all inspectors have sufficient certifications related to the construction activity being inspected and tested (as required). All certification copies are to be maintained in the QA project files on site.

Quality Control

The QCM will ensure that QC functions are carried out in accordance with the Approved PQMP, VDOT's Minimum QA/QC Requirements Manual, VDOT's Materials Manual of Instructions, VDOT's new *Materials Division Memorandum MD 407-17* specifically issued to provide guidance for Materials documentation on D-B project, *VDOT's Road and Bridge Standards and Specifications*. QC inspectors will be provided to ensure inspection of work performed including inspection of all E&S and MOT.

The QCM shall establish and maintain a comprehensive system for the project documentation (diaries, testing logs, Materials Book, project photos, NCR logs, Deficiency logs, MOT work zone checklists, C-107s, up to date SWPPP) at the Project Field Office that will organize and track all Construction QC, QA, OIA and OVST documentation. All documentation shall be adequately identified and cross-referenced to support a field audit by the QAM and VDOT during the life of the Project as well as final audit after project completion. The QAM and/or his designated full-time field representative shall periodically audit the project records for QC testing and inspection QA/QC Plan compliance and report any deficiencies to the Contractor and VDOT.

Materials Testing

All materials used on the project must fulfill the requirements of the Contract Documents. To ensure compliance, the CM will submit all materials documentation to the QAM or his designated representative for review and verification. The QAM or his designated representative shall be responsible for verification of the information provided on the completed C-25 and then forward to VDOT for their use in identifying and scheduling required inspections. The QCM will collect and provide to the QAM or his designated representative all materials documentation related to the work performed; the QAM will then verify all documents are accurate and complete and then record all the materials documents in the Project's Materials Notebook.

The Wagman Team will work closely with VDOT to insure appropriate quality assurance and quality control testing of all materials manufactured off-site is performed as outlined in the PQMP.

Laboratory Testing

The QC materials testing firm for this project will be DMY Engineering Consultants, LLC (DMY). DMY technicians will conduct all laboratory QC materials testing on the project to include all sampling and testing work normally performed by VDOT and in accordance with the *Construction Manual, Inspection Manual, Materials Manual of Instructions, VDOT's Minimum QA/QC Requirements Manual* and all applicable Contract Documents. The DMY laboratory will be available for inspection by the QAM or VDOT at all times and copies of all current certification and equipment



DMY | Materials Testing (I-66 ATM Project)

calibration records will be maintained at the DMY facility located at **45662 Terminal Drive**, **Suite 110**, **Dulles**, **Virginia 20166.** DMY will provide the QC Manager with a monthly summary of laboratory activities, which he will then review and submit to the QAM.



The QA independent materials testing firm will be Specialized Engineering (SE). SE will work under the direction of the full time QA Lead Inspector from QCS and will perform all the QA laboratory testing.

The independent QA and QC testing shall be completed at random locations and at frequencies meeting or exceeding the requirements of *VDOT's Minimum QA/QC Requirements Manual*, respectively. These respective testing locations will be selected based on the randomization procedures detailed in the *Virginia Test Methods Manual* for the appropriate material.

Suspension of Work

The QAM shall have the authority to suspend the work, wholly or in part, by written order for such period as necessary to correct any condition considered by him to be unfavorable for the suitable prosecution of the work or failure on the part of the D-B or their subcontractor(s) to perform any provision of the Contract. The Wagman Team will provide a letter confirming the QAM's authority to suspend work with the PQMP. In addition, the Wagman Team formally extends this stop work authority to all project personnel onsite for both quality and safety by issuing cards with contact information for company executives for notification and reporting purposes.



Deficient and Non-Conforming Work

The QAM, QCM, and VDOT have the authority to enforce the requirements of the Contract when deficient materials or unsatisfactory finished products fail to conform to the Contract Documents. The QA and QC teams, in accordance with their assignments, shall monitor, test and inspect the work as it progresses and record their observations and test results (as applicable). VDOT will also perform Independent Assurance (IA) and Independent Verification (IV) inspections and provide the results to the QAM to be stored with the project records.

Work that is not acceptable to QC will be brought to the immediate attention of the construction supervisor overseeing/performing the work. He will remedy the situation prior to performing any continued construction work that will restrict access to the non-conforming work thereafter.

Non-conforming work where all parties agree that the work will be removed and replaced per the Contract requirements will be considered a "deficiency" and recorded as such for quality tracking purposes in the form of a Deficiency Notice (DN) and closed out through verification by the QAM or his field representative once properly replaced or repaired per plan requirements. All DN's will be recorded in a Deficiency Notice Log with the date of deficiency, type of work activity, reason for deficiency, and corrective action. The Deficiency Notice Log will be tracked throughout the project and any items that are not completed will become part of the Project's final punch list.

Non-conforming work where all parties agree that the work may be accepted in a format that does not meet original plan requirements at time of construction will be considered "non-conforming" work and recorded as such for quality tracking purposes in the form of a Non-Conformance Report (NCR). NCR's may be resolved by the Contractor by Use-As-Is, Repair, or Rework depending on circumstances and appropriate approvals by the Engineer of Record and VDOT.

All NCRs, referenced by a unique number, will be forwarded to Design-Builder and VDOT within forty-eight (48) hours of discovery of the Non-Conformance, or sooner if there is an imminent hazard. NCR's can be initiated by the QAM, QCM, or VDOT. In order to maintain project continuity, all NCR issues will be submitted to and coordinated by the QAM for issuance and resolution.

Corrective and Recovery Action

For each non-conformance, the CM shall investigate the cause of the non-conforming work to identify potential causes for the non-conforming work. Once the causes are determined, the Construction Manager shall



implement changes to the work process and procedures including additional control and preventive actions to minimize the risk of repeat deficiencies.

In reference to Section 5.10.2 of VDOT's Minimum QA/QC Requirements Manual, in the event that submittal register submissions have been delayed by more than 60 days or have undergone more than two submissions, the QAM will address the issue with the DBPM and facilitate a plan of action to reach a final submission.

Construction QA/QC Staffing Plan

The Wagman Team anticipates that the QA staff will consist of a part time QAM, one full time QA Lead Inspector, and one QA inspector with part time inspectors as schedule and work activities dictate. The Wagman Team anticipates the QC staff will consist of a part time QCM, one full time QC Lead inspector, and three full time QC Inspectors with additional part time QC Inspectors as schedule and work activities dictate. The final Staffing levels will be determined by the Approved Project Quality Management Plan in conjunction with the Approved Project Schedule.

Example of QA/QC Procedures for One Construction Element

Construction of Drilled Shaft Foundations

While there may be more critical elements of work on this project, the most critical construction element from a QA/QC perspective is inspection of the specialized geotechnical techniques under consideration for this project. These techniques include drilled shaft, micro pile, soil nail and drilled pile.

For illustrative purposes, we have chosen the drilled shaft as we feel this presents the greatest risk to the project schedule and budget should there be a deficiency or non-conformance. To ensure quality, the QA/QC team will follow the PQMP and conduct a thorough PIM meeting to ensure all project staff understand the quality process associated with installation of drilled shafts. The QA and QC staffs will respectively ensure that the drilled shafts are constructed per the approved installation plan that will be submitted per VDOT's special provisions as well as following the FHWA Manual for Drilled Shaft Construction and Design Methods and any supplement provided by the Geotechnical Engineer and Design Manager. The inspectors will be using the drilled shaft daily log to record depth/rate of drilling, type of material removed, down pressure used and any other observable anomalies. In addition, Wagman's standard practice is for the foreman performing the installation to document the drilling process with a similar drilling log. The inspectors will ensure that the plan tip elevation is attained.

The inspection will ensure that the horizontal tolerance (in inches) and the vertical tolerance (in percentage) are attained. The



Drill shaft installation

reinforcing cage will be checked to make sure it is installed and centered with the correct number of spacers and will not move during the concreting operations. Prior to concrete operations, a slump loss test will be carried out to determine the allowable time for the concrete placement. Concrete placement will be inspected per the specification (based on method of pour) and measurements taken to ensure that there is no loss of concrete to fissures or openings and that the rebar cage is in correct alignment during the pour and immediately after the pour. The removal of the steel casing will be checked to ensure that there is no contamination of the shaft bottom that could affect the quality of the shaft. The quality of the shaft will be checked after the completion using sonic cross hole logging or as required by the Geotechnical Engineer and Design Manager.

Section 4.5

Construction of Project











Section 4.6 Disadvantaged Business Enterprises (DBE)

*Refer to Section 4.1 Letter of Submittal











Section 4.7

Proposal Schedule Narrative













4.7 | PROJECT SCHEDULE

The Wagman Team has provided a Proposal Schedule and Proposal Narrative demonstrating our understanding of the complexities and interrelationships of the technical elements of the Project. PDF copies of the Proposal Schedule and narrative as well as a back-up copy of the Proposal Schedule's source document have been provided on a CD-ROM.



4.7.1 Project Schedule

The Wagman Team has developed a Proposal Schedule (located in Volume II), which takes into account the internal plan reviews, VDOT plan reviews and approvals, FHWA Plan reviews and approvals, environmental permitting and constraints, ROW acquisition, utility relocation, construction activities, and QA/QC inspection and testing. Our Interim Milestone Date of **10 November 2020** and Final Completion Date of **2 September 2021** are within the required time frame as listed in RFP *Section 2.3.1*.

The Proposal Schedule depicts the Wagman Team's proposed overall sequence of work and duration for each work task and deliverables required to complete the Project. The schedule is organized using a hierarchical Work Breakdown Structure (WBS), divided into major phases of the Project.

4.7.2 Project Schedule Narrative

In addition to the technical elements, the narrative also describes the Wagman Team's plan to accomplish the Work including, but not limited to, the overall sequencing, a description and explanation of the Critical Path, proposed means and methods, and other key assumptions upon which the Proposal Schedule is based.

Schedule Development

The Wagman Team has reviewed in detail the scope and schedule requirements outlined in the RFP documents. Numerous site visits and team meetings were conducted, pre-proposal meetings were attended, proprietary meeting discussions occurred, and the schedule task force was developed to build a comprehensive schedule for the I-66 EBW Project.

The Wagman Team is committed to providing VDOT with a completed project by **2 September 2021.**

Project Milestones

Table 4.7-1: Project Milestones

Tuble 107 111 - Ofeet Billiebiertes	
Notice of Intent to Award	11/3/2017
Notice of Award	12/6/2017
Notice to Proceed	1/8/2018
QA/QC Plan Approval	1/29/2018
RFC Plans Segment 1	6/1/2018



Start Construction I66 EBW	6/5/2018
RFC Plans B-675 & B-677	7/27/2018
RFC Plans B-681	10/3/2018
RFC Plans B-686	10/11/2018
Private Utility Relocations Complete	10/18/2018
RFC Plans I66 EDA	10/19/2018
RFC Plans B-678	11/16/2018
RFC Plans B-679	11/16/2018
RFC Plans B-675, B-677, B-678, B-679 & B-686 Repairs	1/8/2019
RFC Plans B-682, B-683, B-684	1/11/2019
RFC Plans Segment 2 & 3	2/11/2019
RFC Plans B-680	2/15/2019
Start Construction I66 EDA	10/1/2020
Interim Milestone Completion	11/10/2020
Final Completion	9/2/2021

Work Breakdown Structure (WBS)

The following WBS provided by the Wagman Team integrates all preconstruction activities as well as construction activities for the I-66 EBW & I-66 EDA into the schedule. The following is a summary overview of the Phases of Construction succeeded by the complete WBS layout. See *Table 4.7-2* for detailed WBS.

Milestones/General Conditions and Preconstruction Activities

These sections contain all non-construction related activities that are pertinent to the project. The following categories represent these sections.

Milestones. Major project dates to achieve project completion goals.

General Conditions. Project management and punch list items required for the project.

Design Activities

Duration set aside for the preliminary, ROW/Roadway Design, and final design of the project. The design will consist of three phases to facilitate VDOT reviews and approvals to advance the start of construction. Whenever possible, permits required for construction will be obtained in advance of final design. The Wagman Team will

The Wagman Team will work to obtain permits and approvals required to start construction in advance of the final design.

work with VDOT during the design using over-the-shoulder reviews and provide comment resolution with all submissions to reduce subsequent review cycles. The design category also includes the following for both I-66 EBW & EDA:

- Structures & Bridges. Preliminary and final design of the Route 7 bridge and the Shared-Use Path structures
- Scope Validation. Duration for discussion between VDOT and the Wagman Team for validation and approval of project scope.
- Survey. Timeframe allowing all necessary surveying for the design and ROW acquisition process.
- Geotechnical. All borings and lab work required to prepare the Geotechnical Reports.



- **VPDES/SWPPP Permitting.** Timeframe set aside for permitting.
- Individual Wetlands Permits. Timeframe set aside for permitting.
- ROW Acquisition Services. Necessary activities for the procurement of public and private property for ROW.
- **Utility Coordination and Relocation.** Necessary activities to relocate utilities including the design, procurement, and construction of utilities that may be affected by construction.

Construction Activities

This project has been designed and set up in 4 Segments built around the drainage divides. Each segment is further subdivided into 2 phases. MOT phases are subdivided by roadway features, thus MOT phases will overlap and have different Stationing than project segments. See *Table 4.7-3* for a correlation between MOT Phasing and Construction Segments.

Segment 1. This segment will involve construction of the new project from the western limit to approximately Station 172, including B-675 and B-677. This segment is further broken down into two phases:

- Segment IA is inclusive of VDOT utility relocations from the inside shoulder to the outside shoulder and the inside widening work.
- Segment IB includes the remaining outside work.
- Structure widening will happen concurrently with both Phases.

Preliminary construction activities in Segment I will occur prior to Final Design. These preliminary activities include MOT, utility relocation, drainage improvements, excavation, and support of excavation in preparation for the foundation activities. This will allow new construction to begin immediately upon receiving Approved for Construction (AFC) plans.

Segment 2. This involves construction from approximately Station 172 to approximately Station 238, including structure B-638. This segment is broken down into two phases similar to those for Segment 1. Preliminary work for this Segment will occur prior to completion of Segment 1 such as MOT, utility relocations, drainage improvements and support of excavation.

Segment 3. This involves construction from approximately Station 238 to the eastern limit of the project, including structure B-679. This Segment is broken down into two phases similar to those for Segment 1. Preliminary work for this Segment will occur prior to completion of Segment 2 such as MOT, utility relocations, drainage improvements and support of excavation.

Segment 4. This includes the remaining items of work that are independent of I-66 EBW such as, I-66 EDA, WB noise walls and bridge widenings, structure B-680, and the Custis Trail realignment.

Table 4.7-3: Segments of the Transform 66 Program

Construction Segment		MOT Phases	
Segment 1	Phase 1 (Station 129 to 172)		
Segment 2	Phase 1 (Station 172 to 179)	Phase 2 (Station 172 to 204)	Phase 3 (Station 204 to 238)
Segment 3	Phase 3 (Station 238 to 312+42		

Project Work Breakdown Structure

Table 4.7-2: Work Breakdown Structure

WBS Code	WBS Name
C00108424DB92	I-66 Eastbound Widening Inside the Beltway Technical Proposal
C00108424DB92.1	Milestones



Table 4.7-2: Work Breakdown Structure

WBS Code	WBS Name
C00108424DB92.2	Quality Assurance
C00108424DB92.B	I-66 EBW Design Phase
C00108424DB92.B.1	Scope Validation
C00108424DB92.B.2	Existing Drainage Culverts
C00108424DB92.B.3	Design
C00108424DB92.B.3.1	Design Waivers & Exceptions
C00108424DB92.B.3.2	Supplemental Survey
C00108424DB92.B.3.2.1	Mobile Scanning Surveys
C00108424DB92.B.3.2.2	Field Surveys
C00108424DB92.B.3.3	Geotechnical Engineering & Subsurface Investigations
C00108424DB92.B.3.4	Roadway Design
C00108424DB92.B.3.4.1	Develop ROW Plans
C00108424DB92.B.3.4.2	Segment 1 A & B - Sta 129 to Sta 172
C00108424DB92.B.3.4.2.1	ITS Replacement / Relocation Modification Segment 1A Inside Widening
C00108424DB92.B.3.4.2.2	Roadway Plan Development
C00108424DB92.B.3.4.3	Remainder of Segments Roadway & Trail Plan Development - Sta 172 to Sta 312+42
C00108424DB92.B.3.5	Bridge Design
C00108424DB92.B.3.5.1	Segment 1 Bridges B-675 & B-677 Widening
C00108424DB92.B.3.5.2	Segment 3 Bridge B-678 Widening
C00108424DB92.B.3.5.3	Segment 3 Bridge B-679 Widening & Deck Replacement
C00108424DB92.B.3.5.4	Bridge B-680 & Retaining Wall W&OD Trail Over US 29
C00108424DB92.B.3.5.5	Bridge B-681 Trail Over I-66
C00108424DB92.B.3.5.6	Bridge B-682, B-683 & B 684 Noise Wall Replacement/Addition
C00108424DB92.B.3.5.7	Bridge B-675, B-677, B-678, B-679 & B-686 Repairs
C00108424DB92.B.3.6	Retaining Wall Design
C00108424DB92.B.3.6.1	Segment 1 Retaining Walls Sta 130+50 to 131 (RW 1) & Sta 146 to 147+50 (RW 2)
C00108424DB92.B.3.6.2	Segment 2B Retaining Walls Sta 12+28 to 16+50 Ramp I (RW 3) & Sta 193+10 to 198+90 (RW 4)
C00108424DB92.B.3.6.3	Segment 3B Retaining Wall Sta 283+50 to 284+10 (RW7)
C00108424DB92.B.3.7	Landscape Architecture & Tree Preservation
C00108424DB92.B.4	Environmental
C00108424DB92.B.4.1	Hazardous Materials
C00108424DB92.B.4.2	Threatened & Endangered Species
C00108424DB92.B.4.2.1	Bat Species Inventory
C00108424DB92.B.4.3	Environmental Permits
C00108424DB92.B.4.3.1	Environmental Permit applications
C00108424DB92.B.4.3.2	Issuance & Approval of Environmental Permits
C00108424DB92.B.4.4	Noise Abatement
C00108424DB92.B.5	Right-of-Way



 Table 4.7-2: Work Breakdown Structure

WBS Code	WBS Name
C00108424DB92.B.6	Utilities
C00108424DB92.B.6.1	Utility Delineation
C00108424DB92.B.6.2	Utility Coordination
C00108424DB92.B.6.3	Utility Design
C00108424DB92.B.6.3.1	Utility Relocation Design
C00108424DB92.B.6.3.2	Utility P&E Development
C00108424DB92.B.6.3.3	No Conflict Utilities
C00108424DB92.B.6.4	Utility Relocation Construction
C00108424DB92.B.7	Public Involvement
C00108424DB92.B.8	Construction Submittals
C00108424DB92.B.9	Acquisitions
C00108424DB92.O	I-66 EDA Design Phase
C00108424DB92.O.1	Scope Validation
C00108424DB92.O.2	Design
C00108424DB92.O.2.1	Design Waivers & Exceptions
C00108424DB92.O.2.2	Supplemental Survey
C00108424DB92.O.2.2.1	Mobile Scanning Surveys
C00108424DB92.O.2.2.2	Field Surveys
C00108424DB92.O.2.3	Geotechnical Engineering & Subsurface Investigations
C00108424DB92.O.2.4	Roadway Design
C00108424DB92.O.2.4.1	Line and Grade, Limits of Disturbance
C00108424DB92.O.2.4.2	Roadway Plan Development
C00108424DB92.O.2.5	Bridge Design
C00108424DB92.O.2.5.1	Bridge B-686 Widening
C00108424DB92.O.2.6	Retaining Wall Design Sta 28+50 to 30+50
C00108424DB92.O.2.7	Landscape Architecture & Tree Preservation
C00108424DB92.O.3	Environmental
C00108424DB92.O.3.1	Hazardous Materials
C00108424DB92.O.3.2	Threatened & Endangered Species
C00108424DB92.O.3.2.1	Bat Species Inventory
C00108424DB92.O.3.3	Environmental Permits
C00108424DB92.O.3.3.1	Environmental Permit applications
C00108424DB92.O.3.3.2	Issuance & Approval of Environmental Permits
C00108424DB92.O.3.4	Noise Abatement
C00108424DB92.O.4	Public Involvement
C00108424DB92.O.5	Construction Submittals
C00108424DB92.O.6	Acquisitions



 Table 4.7-2: Work Breakdown Structure

WBS Code	WBS Name
C00108424DB92.C	Construction
C00108424DB92.C.1	Construction Engineering Design Services
C00108424DB92.C.2	Quality Control
C00108424DB92.C.3	Mobilization
C00108424DB92.C.4	Segment 1 Sta 120+00 to 272+00
C00108424DB92.C.4.1	Segment 1A
C00108424DB92.C.4.2	Segment 1B
C00108424DB92.C.4.3	B-675
C00108424DB92.C.4.4	B-677
C00108424DB92.C.4.5	Final Surface / Landscaping
C00108424DB92.C.5	Segment 2 Sta 272+00 to 238+00
C00108424DB92.C.5.1	Segment 2A
C00108424DB92.C.5.2	Segment 2B
C00108424DB92.C.5.3	B-678
C00108424DB92.C.5.4	Final Surface / Landscaping
C00108424DB92.C.5.5	B-681
C00108424DB92.C.6	Segment 3 238+00 to 312+42
C00108424DB92.C.6.1	Segment 3A
C00108424DB92.C.6.2	Segment 3B
C00108424DB92.C.6.3	B-679
C00108424DB92.C.6.5	Final Surface / Landscaping
C00108424DB92.C.7	Segment 4
C00108424DB92.C.7.1	B-680
C00108424DB92.C.7.2	B-682
C00108424DB92.C.7.3	B-683
C00108424DB92.C.7.4	B-684
C00108424DB92.C.7.5	Noise Barriers
C00108424DB92.C.7.6	I-66 EDA
C00108424DB92.C.7.6.1	Ramp B
C00108424DB92.C.7.6.2	Ramp W
C00108424DB92.C.7.6.3	Ramp A West
C00108424DB92.C.7.6.4	B-686
C00108424DB92.C.7.6.5	Retaining Wall / Ramp A East
C00108424DB92.C.7.6.6	Final Surface / Landscaping



Calendars

The Wagman Team has incorporated six (6) calendars into the Project Schedule:

- **7 Day.** This calendar holds every day as a working day. This calendar is only attached to non-production activities.
- Workweek Weather. This calendar is the base calendar for construction activities. It incorporates a standard workweek, including weather days.
- C00108424DB92 5 day
 C00108424DB92 7 day
 C00108424DB92 Grading
 C00108424DB92 Paving
 C00108424DB92 Bridge Concrete
 C00108424DB92 Planting
- Paving and Pavement Markings. This calendar is present for applications that are constrained by temperature restrictions by VDOT. Additionally, paving operations are further affected by asphalt lay down temperature restrictions and material availability interruptions due to subcontractor plant shut downs. This calendar runs from the end of December to the beginning of March.
- **Grading.** This calendar is present for construction activities related to earthwork. The end of December through the beginning of March are normally difficult months to perform any earthwork related activities. If weather allows, work activities will continue during this calendar period. The schedule will be adjusted as necessary during these months to reflect actual progress.
- **Standard 5-Day Workweek**. This calendar is the base calendar for design activities and incorporates a standard workweek that does not include weather days.
- **Planting.** This calendar is based on the 5-day Workweek calendar and blocks out the no-planting season as defined in the RFP.

Critical Path

The Critical Path Bar Charts for the project are provided following the Project Schedule bar chart. There are two critical paths for the project. One critical path for the Interim Milestone and one critical path for Final Completion. The critical path for the Interim Milestone runs through Widening of B-675 then Segment 2 and 3 Roadway Widening. The critical path for Final Completion runs through B-686 Widening.

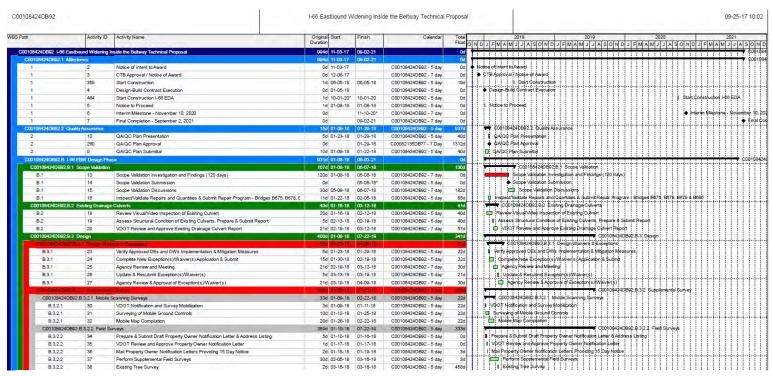


Figure 4.7-1: Sample portion of Schedule



Design

The Wagman Team will advance the design from the current RFP documents and incorporate new design elements into final design and construction documents. Design activities will include surveying, roadway design, bridge design, traffic control devices, MOT plans, signs, guardrail, pavement markings, drainage design, design of SWM facilities, geotechnical investigation including borings and analysis, materials analysis, hydraulic design and pavement design. The project will be delivered by completing roadway design in three phases of design: preliminary design (PFI Plans), ROW design (FI Plans), and final design. Structure plans will have a Stage 1 and Stage 2 submittal. Design-related activities to be performed during each phase are outlined below.

Preliminary design activities will focus on expanding the RFP documents. The Wagman Team will perform numerous independent studies of the information contained in the RFP documents to confirm that the information provided to date is correct and suitable for use in designing the project. These additional studies will include performing supplemental field surveying to confirm horizontal and vertical control of key project features verifying type and location of existing subsurface utilities; performing legal research to confirm existing ROW and property limits; and performing a thorough geotechnical field investigation to confirm geotechnical conditions for the bridge foundation and roadway design. The findings of these studies will be summarized in a series of reports and, if discrepancies occur between the information in the RFP documents and the Wagman Team studies, these results will be presented to VDOT for review and evaluation as outlined in the Scope Validation process for the project.

Roadway plans will be developed including performing geometric design; preparing cross sections and defining limits of construction; completing SWM and E&S control design; preparing plans for traffic control devices as well as a TMP; and completing the preliminary bridge plans working closely with the geotechnical engineers. Required ROW limits will be evaluated and depicted on the plans, and preliminary utility relocation plans will be prepared.

ROW/Roadway Design submittal will occur after preliminary design activities. The ROW, environmental coordination and approval, and utility relocation plan activities will be developed for individual submissions to VDOT and other regulatory agencies for review and approval. The preliminary bridge and roadway plans will be fully detailed and include the items required to start construction activities that can be completed prior to receiving RFC documents.

Construction Plan submittal will occur after receiving ROW/Roadway Design plan approval from VDOT. The Wagman Team will submit the final design plans and reports to VDOT for review and approval.

Environmental Coordination and Approvals

Preliminary environmental activities will begin shortly after receiving NTP and will include a thorough environmental evaluation and confirmation of the information provided in the RFP documents. The Wagman Team will prepare a comprehensive environmental management plan that includes a matrix of environmental commitments and compliance requirements that; identifies milestone dates and integrates those into the project schedule; identifies the responsible party; and summarizes requirements.



The final noise analysis will be conducted including the public polling of property owners which are effected and benefited by the effected noise abatement measures.

Final environmental activities will begin immediately after receiving preliminary plan approval from VDOT. At this point in the design, the footprint for the project will be firmly established and the Wagman Team will identify the final environmental impacts required to construct the project in its entirety. The Wagman Team will strive to avoid and minimize environmental impacts during design development and construction. A Stormwater Pollution Prevention Plan (SWPPP) will be developed and the registration statement for the Virginia Stormwater Management Permit will be submitted immediately following the SWPPP development.



Other agency approvals are needed from NVRC in regard to flooding in Four Mile Run and modifications to Sycamore Pond. Arlington County will review and approve SWM quality and quantity.

Right-of-Way

The Wagman Team will evaluate the proposed ROW, permanent easements, and temporary easements as shown on the plans. If changes are required, either due to a change in the required ROW or a change based on the results of legal research, the Wagman Team will prepare updated preliminary ROW plans and a ROW data sheet and will submit to VDOT for review and approval. Preliminary ROW activities will begin after receiving NTP. The Wagman Team will begin performing the legal research for the identified parcels on the preliminary plans at the same time that our survey crew is validating the survey information provided in the RFP package.

Schedule & Project Management

The schedule is the most important tool in the construction management process and is an efficient method to communicate the intended sequence and progress of the project to the construction team as well as the project stakeholders. The schedule is an extremely useful and productive planning tool. The Wagman Team takes pride in our detailed advance planning for safe and efficient execution of the work. Our Construction Managers, Superintendents, Safety Professionals, and Craft Supervisors use this critical tool as the first step in developing Activity Hazard Analyses and Activity Work Plans. In addition to early planning, the schedule is used to monitor the project's progress and help identify potential deficiencies and problem areas before they develop into a critical impact.

The project management team will continually review and monitor the schedule and use the information gathered to develop mitigation strategies for any activities that are identified as potential impacts. This proactive approach will ensure that the project continues to move forward and that any potential delays are addressed immediately. A variety of different tools will be utilized to assist with this process, including but not limited to the following:

- Weekly schedule and task force meetings between the engineering and construction team members during the design phase
- Weekly construction scheduling meetings throughout the duration of the construction process with the construction team (including management)
- Monthly progress meetings to include all project stakeholders, project team members, and subcontractors
- Three-week look ahead schedules
- RFI logs
- Submittal logs
- Work plans
- Subcontract/purchase order logs
- Shop drawing tracking logs
- Weekly manpower and equipment reviews.

All the above referenced tools will be utilized simultaneously to provide a current and realistic picture of the progress and status at any given time. Information will be presented at meetings to all who are involved for the opportunity to discuss and address any concerns in front of all that are affected. This keeps the line of communication open and allows resolutions and recovery strategies to be developed at an early stage, therefore preventing any further conflict.



Schedule Recovery

Unexpected issues and unforeseen conditions are a possibility during the construction process. The Wagman Team includes many experienced and well-respected members in the D-B field with the ability to recognize and react to any issues. The Wagman Team also possesses regional equipment and manpower resources available to assist as needed. We will aggressively manage the

The Wagman Team in partnership with VDOT will aggressively manage the project and, mitigate any issues that affect the construction schedule.

project and, if needed, mitigate any issues that affect the construction schedule. If necessary, a schedule recovery strategy will be developed, immediately implemented, and closely monitored until the schedule is recovered.

Subcontractor & Material Supplier Scheduling

Subcontractors & Material Suppliers are a critical part of the project schedule. The Wagman Team will closely evaluate each subcontractor and supplier based on quality, performance, and reputation. Beginning with the initial subcontract paperwork, each subcontractor will be intimately involved with every aspect of the project schedule, and their input will be vital. Suppliers will go through a similar process. This includes progress meetings, weekly look-ahead schedules, material submittals, and recovery strategies if needed. Accountability is the key to effective subcontractor and supplier management, and it will be perfectly clear that subcontractors and suppliers will be held accountable for all aspects of their work from quality to schedule.

4.7.3 Proposal Schedule in electronic format (CD-ROM)

In addition to the hard copy located inside the back cover of the *Original Volume I Technical Proposal*, the Wagman Team has provided a copy of the Proposal Schedule and narrative in PDF format as well as a back-up copy of the Proposal Schedule's source document in XER format on a CD-ROM, which is located in the sleeve on the back cover.

Section 4.7

Proposal Schedule











1	Activity ID	Activity Name	Original Start	Finish	Calendar	Total		2018 2019 2020 2
			Duration			Float	OND	
		nside the Beltway Technical Proposal	994d 11-03-17			0d		
00108424DB92.1 Mile			994d 11-03-17	09-02-21		0d		
1	2	Notice of Intent to Award	0d 11-03-17		C00108424DB92 - 5 day	0d		tice of Intent to Award
1	3	CTB Approval / Notice of Award	0d 12-06-17		C00108424DB92 - 7 day	0d	◆ C	CTB Approval / Notice of Award
1	359	Start Construction	1d 06-05-18	06-05-18	C00108424DB92 - 5 day	19d		Start Construction
1	4	Design-Build Contract Execution	0d 01-05-18		C00108424DB92 - 5 day	0d		♦ Design-Build Contract Execution
1	464	Start Construction I-66 EDA	1d 10-01-20*	10-01-20	C00108424DB92 - 5 day	0d		\$tart Construction I-66
1	5	Notice to Proceed	1d 01-08-18	01-08-18	C00108424DB92 - 5 day	0d		Il Notice to Proceed
1	6	Interim Milestone - November 10, 2020	0d	11-10-20*	C00108424DB92 - 7 day	0d		→ Interim Milestone -
1	7	Final Completion - September 2, 2021	0d	09-02-21	C00108424DB92 - 7 day	0d		
00108424DB92.2 Qua	lity Assurance		15d 01-09-18	01-29-18	C00108424DB92 - 5 day	937d	V	▼▼ C00108424DB92.2 Quality Assurance
2	10	QA/QC Plan Presentation	5d 01-23-18	01-29-18	C00108424DB92 - 5 day	40d		© QA/QC Plan Presentation
2	260	QA/QC Plan Approval	0d	01-29-18	C00082135DB77 - 7 Day	1312d		: ♦ QA/Q¢ Plan Approval : : : : : : : : : : : : : : : : : : :
2	9	QA/QC Plan Submittal	10d 01-09-18	01-22-18	C00108424DB92 - 5 day	40d	1	□ QA/QC Plan Submittal
00108424DB92.B I-66	EBW Design Phas		931d 01-08-18	08-03-21		0d		
C00108424DB92.B.1			107d 01-08-18	06-07-18		130d	-	C00108424DB92;B.1 \$cope Validation
B.1	13	Scope Validation Investigation and Findings (120 days)	120d 01-08-18	05-08-18	C00108424DB92 - 7 day	0d	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Scopé Válidatión Investigation and Findings (120 days)
B.1	14	Scope Validation Submission	0d	05-08-18*	C00108424DB92 - 5 day	0d	4 1 1 1	Scope Validation Submission
B.1	15	Scope Validation Discussions	30d 05-08-18	06-07-18	C00108424DB92 - 7 day	182d	1	Scope Validation Discussions
B.1	16	Inspect/Validate Repairs and Quantities & Submit Repair Program - Bridges B675, B678, E	11d 01-22-18	02-05-18	C00108424DB92 - 5 day	65d		☐ Inspect/Validate Repairs and Quantities & Submit Repair Program - Bridges B675, B678, B679 & B686
C00108424DB92.B.2	-		40d 01-16-18	03-12-18	000100424BB32 - 3 day	41d		C00108424DB92.B.2 Existing Drainage:Culverts
B.2	18	Review Visual/Video Inspection of Existing Culvert	20d 01-16-18	03-12-18	C00108424DB92 - 5 day	40d		Réview Visual/Video Inspection of Existing Culvert
B.2	19	Assess Structural Condition of Existing Culverts, Prepare & Submit Report	5d 02-13-18	02-12-18	C00108424DB92 - 5 day	40d		Assess Structural Condition of Existing Culverts, Prepare & Submit Report
	20							Assess structural condition of Existing Converts, Frepare & Subrilli Report
B.2		VDOT Review and Approve Existing Drainage Culvert Report	21d 02-19-18	03-12-18	C00108424DB92 - 7 day	57d		▼ C00108424DB92.B.3 Design
C00108424DB92.B.3		0.5	400d 01-08-18	07-22-19		341d	Y	. ;
C00108424DB92.E						220	1 1 1	C00108424DB92.B.3.1 Design Waivers & Exceptions
B.3.1	23	Verify Approved DEs and DWs Implementation & Mitigation Measures	5d 01-23-18	01-29-18	C00108424DB92 - 5 day	22d		Verify Approved DEs and DWs Implementation & Mitigation Measures
B.3.1	24	Complete New Exception(s)/Waiver(s) Application & Submit	15d 01-30-18	02-19-18	C00108424DB92 - 5 day	22d		Complete New Exception(s)/Waiver(s);Application & Submit
B.3.1	25	Agency Review and Meeting	21d 02-19-18	03-12-18	C00108424DB92 - 7 day	30d		Agency Review and Meeting
B.3.1	26	Update & Resubmit Exception(s)/Waiver(s)	5d 03-13-18	03-19-18	C00108424DB92 - 5 day	21d	1.1	Update & Resubmit Exception(s)/Waiver(s)
B.3.1	27	Agency Review & Approval of Exception(s)/Waiver(s)	21d 03-19-18	04-09-18	C00108424DB92 - 7 day	30d		Agency Review & Approval of Exception(s)/Waiver(s)
C00108424DB92.E	3.3.2 Supplementa	ll Survey	390d 01-09-18	07-22-19	C00108424DB92 - 5 day	333d	7	▼ C00108424DB92.B.3.2 Supplemental Survey
C00108424DB9	2.B.3.2.1 Mobile S	Scanning Surveys	33d 01-09-18	02-22-18	C00108424DB92 - 5 day	22d	1 1 1	C00108424DB92.B.3;2.1 Mobile;Scanning Surveys : : : : : : : : : : : : : : : : : : :
B.3.2.1	30	VDOT Notification and Survey Mobilization	3d 01-09-18	01-11-18	C00108424DB92 - 5 day	22d	1 1	I VDOT Notification and Survey Mobilization
B.3.2.1	31	Surveying of Mobile Ground Controls	10d 01-12-18	01-25-18	C00108424DB92 - 5 day	22d		Surveying of Mobile Ground Controls
B.3.2.1	32	Mobile Map Compilation	20d 01-26-18	02-22-18	C00108424DB92 - 5 day	22d		□ Mobile Map ¢ompilation
C00108424DB9	2.B.3.2.2 Field Su	rveys	389d 01-10-18	07-22-19	C00108424DB92 - 5 day	333d	▼	▼ C00108424DB92.B.3.2.2 Field Surveys
B.3.2.2	34	Prepare & Submit Draft Property Owner Notification Letter & Address Listing	5d 01-10-18	01-16-18	C00108424DB92 - 5 day	0d	1 1 1	Prepare & Submit Draft Property Owner Notification Letter & Address Listing
B.3.2.2	35	VDOT Review and Approve Property Owner Notification Letter	1d 01-17-18	01-17-18	C00108424DB92 - 5 day	0d		I VDOT Review and Approve Property Owner Notification Letter
B.3.2.2	36	Mail Property Owner Notification Letters Providing 15 Day Notice	2d 01-18-18	01-19-18	C00108424DB92 - 5 day	3d	1	Mail Property Owner Notification Letters Providing 15 Day Notice
B.3.2.2	37	Perform Supplemental Field Surveys	30d 02-05-18	03-16-18	C00108424DB92 - 5 day	3d		Perform Supplemental Field Surveys:
B.3.2.2	38	Existing Tree Survey	2d 03-15-18	03-16-18	C00108424DB92 - 5 day	458d		I Existing Tree Survey
B.3.2.2	39	Stake Geotechnical Boring Locations	5d 02-08-18	02-14-18	C00108424DB92 - 5 day	0d	1	Stake Geotechnical Boring Locations
B.3.2.2	40	Prepare Updates Survey Files	20d 02-12-18	03-09-18	C00108424DB92 - 5 day	11d		Prepare Updates Survey Files
B.3.2.2	41	Set ROW Monumentation Prior to Contract Completion		_	C00108424DB92 - 5 day	333d	1	Set ROW Monumentation Prior to Contract Completion
C00108424DB92 F		I Engineering & Subsurface Investigations	206d 01-10-18		, I say	361d	 	▼ C00108424DB92.B.3;3 Geotechnical Engineering & Subsurface Investigations
B.3.3	43	Prepare and Submit Geotechnical Boring Location Plan	10d 01-11-18		C00108424DB92 - 5 day	0d	1	Prepare and Submit Geotechnical Boring Location Plan
B.3.3	44	VDOT Review Geotechnical Boring Location Plan	21d 01-24-18	02-14-18	C00108424DB92 - 7 day	27d	1	VDOT Review Geotechnical Boring Location Plan
B.3.3	45	Prepare Property Owner Notification Letters for Geotechnical Investigations	1d 01-18-18	01-18-18	C00108424DB92 - 5 day	U4	1	I Prepare Property Owner Notification Letters for Geotechnical Investigations
B.3.3	46	Secure Permits and Clear Utilities as Required	15d 01-25-18	02-14-18	C00108424DB92 - 5 day	UY		Sécure Permits and Clear Utilities as Réquired
B.3.3	47	Field Investigations, Boring Logs and Lab Analysis for Scope Validation	39d 02-15-18	04-11-18	C00108424DB92 - 5 day	19d	 - -	Field Investigations, Boring Logs and Lab Analysis for Scope Validation
B.3.3	48	Perform Geotechnical Field Investigations		04-11-18	C00108424DB92 - 5 day	190		Perform Geotechnical Field Investigations
		· ·	39d 02-15-18		-	00		Boring Logs, Laboratory Testing & Analysis
B.3.3	49	Boring Logs, Laboratory Testing & Analysis	49d 02-22-18	05-02-18	C00108424DB92 - 5 day	Ud Oct		
B.3.3	50	Prepare/Submit Bridge Geotechnical Engineering Report B-675 & 677	19d 03-07-18	04-03-18	C00108424DB92 - 5 day	Od :	1	Prepare/Submit Bridge Geotechnical Engineering Report B-675 & 677
B.3.3	51	Prepare/Submit Bridge Geotechnical Engineering Report B-678	20d 05-03-18	05-31-18	C00108424DB92 - 5 day	391d		Prepare/Submit Bridge Geotechnical Engineering Report B-678

		Activity ID	Activity Name	Original Start Duration	Finish	Calendar	Total Float O	2018 2019 2020 N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A	202 A M J
	B.3.3	52	Prepare/Submit Bridge Geotechnical Engineering Report B-679	20d 05-03-18	05-31-18	C00108424DB92 - 5 day	58d	Prepare/Submit Bridge Geptechnical Engineering Report B-679	
	B.3.3	53	Prepare/Submit Bridge Geotechnical Engineering Report B-681	20d 04-12-18	05-09-18	C00108424DB92 - 5 day	354d	Prepare/Submit Bridge Geotechnical Engineering Report B-681	
	B.3.3	54	Prepare/Submit Bridge Geotechnical Engineering Report B-680	20d 06-01-18	06-28-18	C00108424DB92 - 5 day	108d	Prepare/Submit Bridge Geotechnical Engineering Report B-680	
	B.3.3	55	Prepare/Submit Retaining Wall Geotechnical Engineering Report Walls 1 & 2	20d 01-10-18	02-06-18	C00108424DB92 - 5 day	30d	□ Prepare/Submit Retaining Wall Geotechnical Engineering Report. Walls 1 & 2	
	B.3.3	56	Prepare/Submit Retaining Wall Geotechnical Engineering Report Walls 3 & 4	20d 06-29-18	07-27-18	C00108424DB92 - 5 day	183d	Prepare/Submit Retaining Wall Geotechnical Engineering Report Walls 3 & 4	
	B.3.3	57	Prepare/Submit Retaining Wall Geotechnical Engineering Report Walls 5, 6 & 7	20d 06-29-18	07-27-18	C00108424DB92 - 5 day	183d	Prepare/Submit Retaining Wall Geotechnical Engineering Report Walls 5, 6 & 7	
	B.3.3	58	Prepare/Submit Roadway & SWM Geotechnical Engineering Report Segment 1A & B	20d 01-10-18	02-06-18	C00108424DB92 - 5 day	23d	Prépare/Submit Roadway & SWM Geotéchnical Enginéering Réport Segment 1A & B	
	B.3.3	59	Prepare/Submit Roadway & SWM Geotechnical Engineering Report Remaining Segments	20d 06-01-18	06-28-18	C00108424DB92 - 5 day	191d	Prepare/Submit Roadway & SWM Gegtechnical Engineering Report Remaining Segments	
	B.3.3	60	Prepare/Submit Noise Wall Geotechnical Engineering Report	20d 02-15-18	03-14-18	C00108424DB92 - 5 day	73d	Prepare/Submit Noise Wall Geotechnical Engineering Report	
	B.3.3	61	VDOT Review/Approve Bridge Geotechnical Engineering Report B-675 & 677	90d 04-03-18	07-02-18	C00108424DB92 - 7 day	0d	VDOT Review/Approve Bridge Geotechnical Engineering Report B-675 & 677	
	B.3.3	62	VDOT Review/Approve Bridge Geotechnical Engineering Report B-678	90d 05-31-18	08-29-18	C00108424DB92 - 7 day	562d	VDOT Review/Approve Bridge Geotechnical Engineering Report B-678	
	B.3.3	63	VDOT Review/Approve Bridge Geotechnical Engineering Report B-679	90d 05-31-18	08-29-18	C00108424DB92 - 7 day	83d	VDOT Review/Approve Bridge Geotechnical Engineering Report B-679	
	B.3.3	64	VDOT Review/Approve Bridge Geotechnical Engineering Report B-681	90d 05-09-18	08-07-18	C00108424DB92 - 7 day	510d	VDOT Review/Approve Bridge Geptechnical Engineering Report B-681	
	B.3.3	65	VDOT Review/Approve Bridge Geotechnical Engineering Report B-680	90d 06-28-18	09-26-18	C00108424DB92 - 7 day	156d	VDOT Review/Approve Bridge Geotechnical Engineering Report B-680	
	B.3.3	66	VDOT Review/Approve Retaining Walls Geotechnical Engineering Report Wall 1& 2	90d 02-06-18	05-07-18	C00108424DB92 - 7 day	42d	VDOT Review/Apprové Retaining Walls Geotechnical Engineering Report Wall 1& 2	
	B.3.3	67	VDOT Review/Approve Retaining Walls Geotechnical Engineering Report Wall 3 & 4	90d 07-27-18	10-25-18	C00108424DB92 - 7 day	263d	VDOT Review/Approve Retaining Walls Geotechnical Engineering Report Wall;3 &	4
_	B.3.3	68	VDOT Review/Approve Retaining Walls Geotechnical Engineering Report Wall 7	90d 07-27-18	10-25-18	C00108424DB92 - 7 day	263d	VDOT Review/Approve Retaining Walls Geotechnical Engineering Report Wall/7	
	B.3.3	69	VDOT Review/Approve Roadway & SWM Geotechnical Engineering Report 1A & 1B	90d 02-06-18	05-07-18	C00108424DB92 - 7 day	32d	VDOT Review/Approve Roadway & SWM Geotechnical Engineering Report 1A & 1B	
	B.3.3	70	VDOT Review/Approve Roadway Geotechnical Engineering Report Remaining Segments	90d 06-28-18	09-26-18	C00108424DB92 - 7 day	275d	VDOT Review/Approve Roadway Geotechnical Engineering Report Remaining Segme	nts
_	B.3.3	71	VDOT Review/Approve Noise Walls Geotechnical Engineering Report	90d 03-14-18	06-12-18	C00108424DB92 - 7 day	105d	VDOT Review/Approve Noise Walls Geotechnical Engineering Report	
C	00108424DB92.B.3 C00108424DB92.E			285d 01-08-18	02-11-19		131d	▼ C00108424DB92,B,3.4 Roadway Design ▼ C00108424DB92,B,3.4.1 Develop ROW Plans	
			· _	109d 01-08-18	06-08-18	C00109424DD02	24d	Right-df-Way/Roadway Plan Development 1st Submittal	
	B.3.4.1	75	Right-of-Way/Roadway Plan Development 1st Submittal	56d 01-08-18	03-26-18	C00108424DB92 - 5 day	0d	Develop Drainage/SWM, E&S Plans and Drainage/SWM Report 1st Submittal	
	B.3.4.1 B.3.4.1	76 77	Develop Drainage/SWM, E&S Plans and Drainage/SWM Report 1st Submittal	56d 01-08-18	03-26-18	C00108424DB92 - 5 day	26d	Develop Signing, Marking, Lighting, Signal, ITS/ETC, MOT Plans & Draft TMP 1st Submittal	
		78	Develop Signing, Marking, Lighting, Signal, ITS/ETC, MOT Plans & Draft TMP1st Submitta	51d 01-15-18	03-26-18	C00108424DB92 - 5 day	26d	\$-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4	
	B.3.4.1		Develop Photometric Lighting Analysis & Calculations and Submit	36d 01-15-18	03-05-18	C00108424DB92 - 5 day	41d	Develop Photometric Lighting Analysis & Calculations and Submit	
	B.3.4.1	79	Utilities Coordination & Easement Request	1d 03-20-18	03-20-18	C00108424DB92 - 5 day	30d	I Utilities Coordination & Easement Requiest Design QA/QC ROW Plans 1st Submittal	
	B.3.4.1	80	Design QA/QC ROW Plans 1st Submittal	5d 03-27-18	04-03-18	C00108424DB92 - 5 day	26d	Submit ROW Plans 1st Submittal	
	B.3.4.1	81	Submit ROW Plans 1st Submittal	1d 04-10-18	04-10-18	C00108424DB92 - 5 day	22d	UDOT Review and Comment ROW Plans 1st Submittal	
	B.3.4.1	82 83	VDOT Review and Comment ROW Plans 1st Submittal	21d 04-10-18	05-01-18	C00108424DB92 - 7 day	30d	Address Comments Develop ROW Plans Final	
	B.3.4.1 B.3.4.1	84	Address Comments Develop ROW Plans Final	10d 05-02-18	05-15-18	C00108424DB92 - 5 day C00108424DB92 - 5 day	21d 21d	Design QA/QC ROW Plans Final Submittal	
	B.3.4.1	85	Design QA/QC ROW Plans Final Submittal Submit ROW Plans Final Submittal	2d 05-16-18 1d 05-18-18	05-17-18 05-18-18	C00108424DB92 - 5 day	21d 21d	I Submit ROW Plans Final Submittal	
_	B.3.4.1	86	VDOT Review / Approve ROW Plans Final	21d 05-18-18	06-08-18	C00108424DB92 - 7 day	32d	□ VDOT Review/Approve ROW Plans Final	
	B.3.4.1	87	ROW Plans Approved	0d	06-08-18	C00108424DB92 - 7 day	23d	→ ROW Plans Approved	
	B.3.4.1	89	NVRC/Sycamore Pond & 4 Mile Run	21d 01-08-18	02-05-18	C00108424DB92 - 5 day	59d	NVRC/Sycamore Pond & 4 Mile Run	
	B.3.4.1	90	AC SWM Quantity &Quality	31d 01-08-18	02-03-18	C00108424DB92 - 5 day	49d	AC SWM Quantity &Quality	
	B.3.4.1	91	NVRC Review of Sycamore Pond Modifications & 4 Mile Run (Hold Point)	45d 02-05-18	03-22-18	C00108424DB92 - 7 day	84d	NVRC Review of Sycampre Pond Modifications; & 4 Mile Run (Hold Point);	
	B.3.4.1	92	Arlington County for Stormwater Management Quality and Quantity (Hold Point)	45d 02-19-18	04-05-18	C00108424DB92 - 7 day	70d	Arlington County for Stormwater Management Quality and Quantity (Hold Point)	
			nt 1 A & B - Sta 129 to Sta 172	104d 01-08-18	06-01-18	COUNCE IE IBBOZ 1 day	30d	C00108424DB92.B.3.4.2 Segment 1 A & B + Sta 129 to Sta 172	
		_	S Replacement / Relocation Modification Segment 1A Inside Widening	88d 01-08-18	05-09-18		41d	CQ0108424DB92,B,3.4,2.1 ITS Replacement / Relocation Modification Segment 1A Inside Widening	a+
	B.3.4.2.1	100	Design QA/QC Segment 1A Inside Widening ITS Replacement/Reloc./Mod. Plans Final St	4d 04-05-18	04-10-18	C00108424DB92 - 5 day	40d	Design QA/QC Segment 1A Inside Widening ITS Replacement/Reloc://Mod. Plans Final Submittal	1111
	B.3.4.2.1	101	Submit Segment 1A Final Inside Widening ITS Replacement/Relocation/Modification Plans	1d 04-11-18	04-11-18	C00108424DB92 - 5 day	40d	Submit Segment 1A/Final Inside Widening ITS/Replacement/Relocation/Modification Plans	
	B.3.4.2.1	102	VDOT/FHWA Review & Comment/Approval Segment 1A Inside Widening Final ITS Replace	21d 04-11-18	05-02-18	C00108424DB92 - 7 day	57d	☐ VDOT/FHWA Review & Comment/Approval Segment 1A Inside Widening Final ITS Replacement/Re	loc./Mod
	B.3.4.2.1	103	Released For Construction (RFC) Segment 1AInside Widening ITS Replacement, Reloc.,	5d 05-03-18	05-09-18	C00108424DB92 - 5 day	40d	Released For Construction (RFC) Segment 1A Inside Widerling ITS Replacement, Reloc., Mod. Pla	- i i i
	B.3.4.2.1	95	Develop Segment 1A Inside Widening Preliminary ITS Replacement/Relocation/Modificatio	31d 01-08-18	02-19-18	C00108424DB92 - 5 day	40d	Develop Segment 1A Inside Widening Preliminary ITS Replacement/Relocation/Modification Plans	
	B.3.4.2.1	96	Design QA/QC Segment 1A Inside Widening Preliminary ITS Replacement/Relocation/Moc	5d 02-20-18	02-26-18	C00108424DB92 - 5 day	40d	Design QA/QC Segment 1A Inside Widening Preliminary IT'S Replacement/Relocation/Modification Plans S	ubmittal
	B.3.4.2.1	97	Submit Segment 1A Preliminary ITS Replacement/Relocation/Modification Plans	1d 02-27-18	02-27-18	C00108424DB92 - 5 day	40d	t Submit Segment 1A Preliminary ITS Replacement/Relocation/Modification; Plans	
	B.3.4.2.1	98	VDOT/FHWA Review & Comment/Approval Segment 1A Inside Widening Prelim. ITS Repl	21d 02-27-18	03-20-18	C00108424DB92 - 7 day	57d	□ VDOT/FHWA Review. & Comment/Approval Segment 1A Inside Widening Prelim. ITS Replacement/Refor	c./ Mod./
	B.3.4.2.1	99	Address Comments Develop Segment 1A Inside Widening Final ITS Replacement/Reloc./	10d 03-21-18	04-04-18	C00108424DB92 - 5 day	40d	☐ Address Comments Develop Segment 1A Inside Widening Final ITS Replacement/Reloc./Mod. Plans	
			padway Plan Development	103d 01-09-18	06-01-18		30d	▼ C00108424DB92.B.3.4.2.2 Roadway Plan Development	+-+-+
	B.3.4.2.2	105	Develop Segment 1A & B Roadway 1st Submittal	30d 01-09-18	02-19-18	C00108424DB92 - 5 day	19d	Develop Segment 1A & B Roadway 1st Submittal	
	B.3.4.2.2	106	Develop Segment 1A & B Drainage/SWM, E&S Plans and Drainage/SWM Report 1st Subr	30d 01-09-18	02-19-18	C00108424DB92 - 5 day	19d	Develop Segment 1A & B Drainage/SWM, E&S Plans and Drainage/SWM Report 1st Submittal	
	B.3.4.2.2	107	Develop Seg. 1A & B Sign., Marking, Lighting, Signal Design, ITS/ETC (1B), MOT& TMP (25d 01-16-18	02-19-18	C00108424DB92 - 5 day	19d	Develop Seg, 1A & B Sign., Marking, Lighting, Signal Design, ITS/ETC (1B), MOT& TMP (Traffic) 1st Submi	ittal
	B.3.4.2.2	108	Design QA/QC Segment 1A & B 1st Submittal	5d 02-20-18	02-26-18	C00108424DB92 - 5 day	19d	ID Design QA/QC Segment 1A & B 1st Submittal	
		-	<u> </u>	1					

108424DB92				I-66 Eastbound \	Widening Ins	ide the Beltway Technical	Proposal	06	9-25-17 1
ath		Activity ID	Activity Name	Original Start Duration	Finish	Calendar	Total Float		021 . A S C
В.	3.3.4.2.2	109	Submit Segment 1A & B Roadway/Drainage/SWM/E&S/Traffic/MOT Plans & TMP 1st Subr	1d 02-27-18	02-27-18	C00108424DB92 - 5 day	23d	t Submit Segment 1A & B.Rqadway/Drainage/SWM/E&S/Traffic/MOT Plans & TMP 1st Submittal	1911191
		110	VDOT/FHWA Review and Comment Segment 1A & B 1st Submittal	21d 02-27-18		C00108424DB92 - 7 day	33d	VDOT/FHWA Review and Comment Segment 1A & B 1st Submittal	
		111	Address Comments Develop Segment 1A & B Roadway Final Submittal	10d 03-26-18		C00108424DB92 - 5 day	19d	Address; Comments; Develop Segment 1A & B; Roadway Final Submittal	
B.	3.3.4.2.2	112	Address Comments Develop Segment 1A & B Drainage/SWM, E&S Plans Final Submittal	10d 03-26-18	04-09-18	C00108424DB92 - 5 day	37d	Address Comments Develop Segment 1A & B Drainage/SWM, E&S Plans Final Submittal	
B.	3.3.4.2.2	113	Address Comments Develop Segment 1A & B Traffic, MOT & TMP Final Submittal	10d 03-26-18	04-09-18	C00108424DB92 - 5 day	37d	☐ Address Comments Develop Segment 1A & B Traffic, MOT & TMP Final Submittal	
В.	3.3.4.2.2	114	Design QA/QC Segment 1A & B Final Submittal	5d 04-10-18	04-16-18	C00108424DB92 - 5 day	37d	II Design QA/QC \$egment 1A/& B Final Submittal	1-1-1-
В.	3.3.4.2.2	115	Submit Segment 1A & B Roadway/Drainage/SWM/E&S/Traffic/MOT Plans & TMP Final Su	1d 05-07-18	05-07-18	C00108424DB92 - 5 day	23d	I Submit Segment 1A & B Roadway/Drainage/SWM/E&S/Traffic/MOT Plans & TMP Final Submittal	
В.	3.3.4.2.2	116	VDOT/FHWA Review/Approve and Comment Segment 1A & B Final Submittal	21d 05-07-18	05-28-18	C00108424DB92 - 7 day	42d	□ VDOT/FHWA Review/Approve and Comment Segment 1A& B Final Submittal	
В.	3.3.4.2.2	117	Released For Construction (RFC) Segment 1A & B Plans	1d 06-01-18	06-01-18	C00108424DB92 - 5 day	29d	Released For Construction (RFC) Segment 1A & B Plans	
C00108	8424DB92.B.3	.4.3 Remain	der of Segments Roadway & Trail Plan Development - Sta 172 to Sta 312+42	190d 05-21-18	02-11-19		131d	C00108#24DB92.B.3.4.3 Remainder of Segments Roadway & Trail Plan Develo	pment -
B.3.4	4.3	119	Develop Remainder Segments Roadway Plans 1st Submittal	90d 05-21-18	09-26-18	C00108424DB92 - 5 day	50d	Develop Remainder Segments Roadway Plans 1st Submittal	111
B.3.4	4.3	120	Develop Remainder Segments Drainage/SWM, E&S Plans and Drainage/SWM Report 1st	90d 05-21-18	09-26-18	C00108424DB92 - 5 day	128d	Develop Remainder Segments Drainage/SWM, E&S Plans and Drainage/SWM Report 1st/St	ubmittal
B.3.4	4.3	121	Develop Remainder Seg. Sign., Marking, Lighting, Signal Design, ITS/ETC, MOT& TMP (T	85d 05-29-18	09-26-18	C00108424DB92 - 5 day	128d	Develop Remainder Seg. Sign., Marking, Lighting, Signal Design, ITS/ETC, MO:T& TMP:(Traf	ric) 1st S
B.3.4	4.3	122	Design QA/QC Remainder Segments 1st Submittal	5d 09-27-18	10-03-18	C00108424DB92 - 5 day	128d	Design QA/QC Remainder Segments 1st Submittal	
B.3.4	4.3	123	Submit Remainder Segments Roadway/Drainage/SWM/E&S/Traffic/MOT Plans & TMP 1s	1d 10-04-18	10-04-18	C00108424DB92 - 5 day	128d	I Submit Remainder Segments Roadway/Drainage/SWM/E&S/Traffic/MOT Plans & TMP 1st S	ubmittal
B.3.4	4.3	124	VDOT/FHWA Review and Comment/Approval Remainder Segment 1st Submittal	21d 10-04-18	10-25-18	C00108424DB92 - 7 day	208d	□ VDQT/FHWA Review and Comment/Approval Remainder Segment 1st Submittal	
B.3.4	4.3	125	VDOT/Arlington County/NOVA Parks Review and Comment Trails 1st Submittal (Hold Poir	45d 10-04-18	11-18-18	C00108424DB92 - 7 day	184d	VDOT/Arlington County/NOVA Parks Review and Comment Trails 1st Submittal (Hold Po	Jint)
B.3.4	4.3	126	Address Comments Develop Remainder Segments Roadway Final Submittal	21d 11-19-18	12-18-18	C00108424DB92 - 5 day	128d	Address Comments Develop Remainder Segments Roadway Final Submittal	
B.3.4	4.3	127	Address Comments Develop Remainder Segments Drainage/SWM, E&S Plans Final Subi	21d 11-19-18	12-18-18	C00108424DB92 - 5 day	128d	Address Comments Develop Remainder Segments Drainage/\$WM, E&S Plans Final	Submitta
B.3.4	4.3	128	Address Comments Develop Remainder Segments Traffic, MOT & TMP Final Submittal	21d 11-19-18	12-18-18	C00108424DB92 - 5 day	128d	Address Comments Develop Remainder Segments Traffic, MOT & TMP Final Submi	tal
B.3.4	4.3	129	Design QA/QC Remainder Segments Final Submittal	5d 12-19-18	12-26-18	C00108424DB92 - 5 day	128d	Design QA/QC Remainder Segments Final Submittal	
B.3.4	4.3	130	Submit Remainder Segments Roadway/Drainage/SWM/E&S/Traffic/MOT Plans & TMP Fir	1d 12-27-18	12-27-18	C00108424DB92 - 5 day	128d	I Submit Remainder Segments Roadway/Draihage/SWM/E&S/Traffic/MQT Plans & TN	/IP Final
B.3.4	4.3	131	VDOT/FHWA Review and Comment/Approval Remainder Segments Final Submittal	21d 12-27-18	01-17-19	C00108424DB92 - 7 day	200d	□ VDOT/FHWA Review and Comment/Approval Remainder Segments Final Submitt	al
B.3.4	4.3	132	VDOT/Arlington County/NOVA Parks Review and Comment/Approval W&OD Trails Final (45d 12-27-18	02-10-19	C00108424DB92 - 7 day	183d	VDOT/Arlington County/NOVA Parks Review and Comment/Approval W&QDTu	ails Final
B.3.4	4.3	133	Released For Construction (RFC) Remainder Segments Plans	1d 02-11-19	02-11-19	C00108424DB92 - 5 day	128d	Released For Construction (RFC) Remainder Segments Plans	1 1 1
	24DB92.B.3.5			343d 01-22-18			388d	▼ C00108424DB92.B;3.5 Bridge;Design	
		•	tt 1 Bridges B-675 & B-677 Widening	198d 01-22-18			533d	C00108424DB92.B.3/5.1 Segment 1 Bridges B-675 & B-677 Widerling	
B.3.5		136	Prepare B-675 & B-677 Reports/Const Stages/TS&L (Stage I) Submission	16d 01-22-18		C00108424DB92 - 5 day	0d	Prepare B-675 & B-677 Reports/Const Stages/TS&L (Stage I) Submission	
B.3.5		137	Submit B-675 & B-677 Stage I Submission	1d 02-13-18		C00108424DB92 - 5 day	0d	I Submit B-675 & B-677 Stage I Submission	
B.3.5		138	VDOT/FHWA Review, Comment & Approve B-675 & B-677 Stage I Submission	21d 02-13-18		C00108424DB92 - 7 day	0d	VDOT/FHWA Review, Comment & Approve B-675 & B-677 Stage I Submission	4
B.3.5		139	Address Comments and Prepare B-675 & B-677 Final Plans (Stage II) Submission	78d 03-07-18		C00108424DB92 - 5 day	0d	Address Comments and Prepare B-675 & B-677 Final Plans (Stage II) Submission	
B.3.5		140	Develop Demo&Erection Plans	3d 06-27-18		C00108424DB92 - 5 day	16d	Develop Demo&Erection Plans	
B.3.5		141	Load Rating Analysis for Partial Demolition	3d 06-22-18		C00108424DB92 - 5 day	Od Od	Load Rating Analysis for Partial Demolition Design QAQC B-675 & B-677 Stage II Submission Load Rating Analysis for Partial Demolition Design QAQC B-675 & B-677 Stage II Submission	
B.3.5		142	Design QA/QC B-675 & B-677 Stage II Submission	3d 06-27-18	_	C00108424DB92 - 5 day	0d		
B.3.5		143	Submit B-675 & B-677 Stage II Submission	1d 07-02-18		C00108424DB92 - 5 day	0d	1 Submit B-675 & B-677 Stage II Submission VDOT/FHWA Review/Approval B-675 & B-677 Stage II Submission	
B.3.5		144	VDOT/FHWA Review/Approval B-675 & B-677 Stage II Submission	21d 07-02-18		C00108424DB92 - 7 day	0d 0d	Final Revisions, Released for Construction(RFC) Plans	
B.3.5		145	Final Revisions, Released for Construction(RFC) Plans	4d 07-24-18		C00108424DB92 - 5 day	747d	Bridge Construction Unit Cost Report (w/in 90 Days of RFC)	
B.3.5			Bridge Construction Unit Cost Report (w/in 90 Days of RFC)	90d 07-27-18		C00108424DB92 - 7 day	453d	Bridge Cdristruction of it Cost Report (will 90 bays of RFC) ▼ C00108424DB92.B;3.5.2 Segment 3 Bridge B-678 Widehing	
		-	tt 3 Bridge B-678 Widening	268d 02-05-18		C00109424DD02 E day		Prepare B-678 Reports/Const Stages/Demd&Erection Plans/TS&L (Stage I) Submission	
B.3.5 B.3.5		148	Prepare B-678 Reports/Const Stages/Demo&Erection Plans/TS&L (Stage I) Submission Submit B-678 Stage I Submission	16d 02-05-18 1d 04-10-18		C00108424DB92 - 5 day C00108424DB92 - 5 day	91d 395d	Submit B-678 Stage Submission	
			· ·			-	567d	□ VDOT/FHWA Review, Comment & Approve B-678 Stage I Submission	
B.3.5 B.3.5		150 151	VDOT/FHWA Review, Comment & Approve B-678 Stage I Submission Address Comments and Prepare B-678 Final Plans (Stage II) Submission	21d 04-10-18 76d 06-29-18		C00108424DB92 - 7 day C00108424DB92 - 5 day	354d	Address Comments and Prepare B-678 Final Plans (Stage II) Submission	
B.3.5		152	Develop Demo&Erection Plans	3d 10-17-18		C00108424DB92 - 5 day	369d	Develop Demo&Erection Plans	
B.3.5		153	Load Rating Analysis for Partial Demolition	4d 10-11-18		C00108424DB92 - 5 day	354d	Ldad Rating Analysis for Partial Demolition	
B.3.5		154	Design QA/QC B-678 Stage II Submission	3d 10-17-18		C00108424DB92 - 5 day	354d	I Design QA/QC B-678/Stage II Submission	jjj
B.3.5		155	,			-	354d	Submit B-678 Stage II Submission	
B.3.5		156	Submit B-678 Stage II Submission VDOT/FHWA Review/Approval B-678 Stage II Submission	1d 10-22-18 21d 10-22-18		C00108424DB92 - 5 day	510d	□ VDOT/FHWA Review/Approvat B-678 Stage II Submission	
			**			C00108424DB92 - 7 day			alane
B.3.5		157	Final Revisions, VDOT/FHWA Reivew&Approval and Released for Construction(RFC) Pla	4d 11-13-18		C00108424DB92 - 5 day	354d		iaiis
B.3.5		158	Bridge Construction Unit Cost Report (Win 90 Days of RFC)	90d 11-16-18		C00108424DB92 - 7 day	635d	Bridge Construction Unit Cost Report (Wirr 90 Days of RFC)	ent
		-	t 3 Bridge B-679 Widening & Deck Replacement	268d 02-05-18		C00400404DD00 5 -1	453d	C00108424DB92.B;3.5.3 Segment 3 Bridge B-679 Widening & Deck Replacem	PIR
B.3.5	ე.პ	160	Prepare B-679 Reports/Const Stages/Demo&Erection Plans/TS&L (Stage I) Submission	16d 02-05-18	02-26-18	C00108424DB92 - 5 day	91d	☐ Prepare B-679 Reports/Const Stages/Demo&Erection Plans/TS&L (Stage I) Submission	1 1 1
D.0.5	5 0	161	Develop 11011A and Ocean Develop	164 02 05 19	02 26 19	C00109424DB02 5 day	014	Develop H&HA and Scour Report	1 1 1

Critical Remaining ... Remaining Level of Effort Actual Work Actual Level of Effort Remaining Work ◆ Milestone

Develop H&HA and Scour Report

Submit B-679 Stage I Submission

VDOT/FHWA Review, Comment & Approve B-679 Stage I Submission

B.3.5.3

B.3.5.3

B.3.5.3

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16d 02-05-18 02-26-18

1d 04-10-18 04-10-18

21d 04-10-18 05-01-18

C00108424DB92 - 5 day

C00108424DB92 - 5 day

C00108424DB92 - 7 day

91d

62d

Wagman Heavy Civil, Inc.

I Submit B-679 Stage I Submission

UDO T/FHWA Review, Comment & Approve B-679 Stage I Submission

Develop H&HA and Scour Report

			1-00 Eastbourn	a widening ins	side the Beltway Technica	i Proposai	09-25-1
	Activity ID	Activity Name	Original Start	Finish	Calendar	Total Float OLNI	2018 2019 2020 2021
B.3.5.3	164	Address Comments and Prepare B-679 Final Plans (Stage II) Submission	76d 06-29-	18 10-16-18	C00108424DB92 - 5 day	21d	D J F M A M J J A S O N D J F M A M J A S O N D J A S
B.3.5.3	165	Develop Demo&Erection Plans	3d 10-17-		C00108424DB92 - 5 day	322d	Dewelop Demo&Erection Plans
B.3.5.3	166	Load Rating Analysis for Partial Demolition	4d 10-11-		C00108424DB92 - 5 day	21d	Load Rating Analysis for Partial Demolition
B.3.5.3	167	Design QA/QC B-679 Stage II Submission	3d 10-17-		C00108424DB92 - 5 day	21d	I Design QA/QC B-679 Stage II Submission
B.3.5.3	168	Submit B-679 Stage II Submission	1d 10-22-		C00108424DB92 - 5 day	21d	Submit B-679 Stage II Submission
B.3.5.3	169	VDOT/FHWA Review/Approval B-679 Stage II Submission	21d 10-22-		C00108424DB92 - 7 day	454d	□ VDOT/FHWA Review/Approval B-679 Stage II Submission
B.3.5.3	170	Final Revisions, VDOT/FHWA Reivew&Approval and Released for Construction(RFC) Pla	4d 11-13-	18 11-16-18	C00108424DB92 - 5 day	314d	Final Revisions, VDOT/FHWA Reivew&Approval and Released for Construction (RFC) Plans
B.3.5.3	171	Bridge Construction Unit Cost Report (w/in 90 Days of RFC)	90d 11-16-	18 02-14-19	C00108424DB92 - 7 day	635d	Bridge Construction Unit Cost Report (w/in 90 Days of RFC)
C00108424DB92	.B.3.5.4 Bridge	B-680 & Retaining Wall W&OD Trail Over US 29	333d 02-05-	18 05-16-19	,	388d	C00108424DB92.B[3.5.4] Bridge B-680 & Retaining Wall W&OD Trail Over U
B.3.5.4	173	Prepare B-680 & Wall Reports/Erection Plans/TS&L (Stage I) Submission	31d 02-05-		C00108424DB92 - 5 day	144d	Preparé B-680 & Wall Reports/Erection Plans/TS&L (Stage I) Submission
B.3.5.4	174	Submit B-680 & Walls Stage I Submission	1d 04-10-	18 04-10-18	C00108424DB92 - 5 day	130d	I Suþmit B-680 & Walls Stage I Submissign
B.3.5.4	175	VDOT/FHWA Review, Comment & Approve B-680 & Walls Stage I Submission	21d 04-10-	18 05-01-18	C00108424DB92 - 7 day	209d	□ VDOT/FHWA Review, Comment & Approve B-680 & Walls Stage I Submission
B.3.5.4	176	Arlington County (AC)/NOVA Parks (NVPA)/City of Fall Church (CFC) Review Stage I Sub	45d 04-10-	18 05-25-18	C00108424DB92 - 7 day	185d	Arlington County (AC)/NOVA Parks (NVPA)/City of Fall Church (CFC) Review Stage I Submission (Hold Point)
B.3.5.4	177	Address Comments and Prepare B-680 & Walls Final Plans (Stage II) Submission	61d 09-17-	18 12-11-18	C00108424DB92 - 5 day	50d	Address Comments and Prepare B-680 & Walls Final Plans (Stage II) Submission
B.3.5.4	178	Design QA/QC B-680 & Walls Stage II Submission	5d 12-12-	18 12-18-18	C00108424DB92 - 5 day	50d	II Design QA/QC B-680 & Walls Stage II Submission
B.3.5.4	179	Submit B-680 & Walls Stage II Submission	1d 12-19-	18 12-19-18	C00108424DB92 - 5 day	50d	I; Submit B-680 & Walls Stage II; Submitssion
B.3.5.4	180	VDOT/FHWA Review/Approval B-680 & Walls Stage II Submission	21d 12-19-	18 01-09-19	C00108424DB92 - 7 day	97d	□ VDOT/FHWAReview/Approval B-680 & Walls Stage II Submission
B.3.5.4	181	AC/NVPA/CFC Review & Comment Stage II Submission (Hold Point)	45d 12-19-	18 02-02-19	C00108424DB92 - 7 day	73d	AC/NVPA/CFC Review & Comment Stage II Submission (Hold Point)
B.3.5.4	182	Final Revisions, VDOT/FHWA Review & Approval and Released for Construction(RFC) P	10d 02-04-	19 02-15-19	C00108424DB92 - 5 day	52d	□ Final Revisions, VDOT/FHWA Review & Approval and Released for Construction (RFC
B.3.5.4	183	Bridge Construction Unit Cost Report (w/in 90 Days of RFC)	90d 02-15-	19 05-16-19	C00108424DB92 - 7 day	544d	Bridge Construction Unit Cost Report (W/in/90 Days of RFC)
C00108424DB92	.B.3.5.5 Bridge	B-681 Trail Over I-66	221d 02-26-	18 01-01-19		485d	▼ C00108424DB92.B.3.5.5 Bridge B-681 Trail Over I-66
B.3.5.5	185	Prepare B-681 Reports/Const Stages/Demo&Erection Plans/TS&L (Stage I) Submission	16d 02-26-	18 03-19-18	C00108424DB92 - 5 day	388d	Prepare B-681 Reports/Const Stages/Demo&Erection Plans/TS&L (Stage I) Submission
B.3.5.5	186	Submit B-681 Stage I Submission	1d 04-10-	18 04-10-18	C00108424DB92 - 5 day	374d	: I Submit B-681 Stage: Submission : : : : : : : : : : : : : : : : : : :
B.3.5.5	187	VDOT/FHWA Review, Comment & Approve B-681 Stage I Submission	21d 04-10-	18 05-01-18	C00108424DB92 - 7 day	538d	☐ VDDT/FHWA Review, Comment & Approve B-681 Stage I Submission
B.3.5.5	188	Address Comments and Prepare B-681 Final Plans (Stage II) Submission	45d 06-29-	18 08-31-18	C00108424DB92 - 5 day	333d	Address Comments and Prepare B-681 Final Plans (Stage II) Submission
B.3.5.5	189	Develop Demo & Erection Plans	2d 09-04-	18 09-05-18	C00108424DB92 - 5 day	352d	Develop Demo & Erection Plans
B.3.5.5	190	Design QA/QC B-681 Stage II Submission	2d 09-04-	18 09-05-18	C00108424DB92 - 5 day	333d	Desigh QA/QC B-681 Stage II Submission
B.3.5.5	191	Submit B-681 Stage II Submission	1d 09-06-	18 09-06-18	C00108424DB92 - 5 day	333d	I Submit B-681 Stage II Submission
B.3.5.5	192	VDOT/FHWA Review/Approval B-681 Stage II Submission	21d 09-06-	18 09-27-18	C00108424DB92 - 7 day	480d	VDФT/FHWA Review/Approval B-681 Stage II Submission
B.3.5.5	193	Final Revisions, VDOT/FHWA Reivew&Approval and Released for Construction(RFC) Pla	4d 09-28-	18 10-03-18	C00108424DB92 - 5 day	332d	Final Revisions, VDOT/FHWA Reivew&Approval and Released for Construction(RFC):Plans
B.3.5.5	194	Bridge Construction Unit Cost Report (w/in 90 Days of RFC)	90d 10-03-	18 01-01-19	C00108424DB92 - 7 day	679d	Bridge Construction Unit Cost Report (w/in 90 Days of RFC)
C00108424DB92	.B.3.5.6 Bridge	B-682, B-683 & B 684 Noise Wall Replacement/Addition	261d 04-11-	18 04-11-19		413d	C00108424DB92,B.3.5,6 Bridge B-682, B-683 & B 684 Noise Wall Replacement
B.3.5.6	196	Prepare B-682, B-683 & B-684 Reports/Const Stages/Demo&Erection Plans/TS&L (Stage	30d 04-11-	18 05-22-18	C00108424DB92 - 5 day	107d	Prepare B-682, B-683 & B-684 Reports/Const Stages/Demp&Erection Plans/TS&L (Stage I)
B.3.5.6	197	Submit B-682, B-683 & B-684 Stage I Submission	1d 05-23-	18 05-23-18	C00108424DB92 - 5 day	107d	I Submit B-682, B-683 & B-684 Stage I Submission
B.3.5.6	198	VDOT/FHWA Review, Comment & Approve B-682, B-683 & B-684 Stage I Submission	21d 05-23-	18 06-13-18	C00108424DB92 - 7 day	580d	□ VDOT/FHWA/Review, Comment & Approve B-682, B-683 & B-684 Stage I Submission
B.3.5.6	199	Address Comments and Prepare B-682, B-683 & B-684 Final Plans (Stage II) Submission	112d 06-14-	11-20-18	C00108424DB92 - 5 day	402d	Address Comments and Prepare B-682, B-684 Final Plans (Stage II) Submission
B.3.5.6	200	Develop Demo&Erection Plans	7d 11-21-	18 11-30-18	C00108424DB92 - 5 day	427d	□ Develop Demo&Erection Plans
B.3.5.6	201	Load Rating Analysis for Partial Demolition	12d 11-05-	18 11-20-18	C00108424DB92 - 5 day	402d	
B.3.5.6	202	Design QA/QC B-682, B-683 & B-684 Stage II Submission	7d 11-21-	18 11-30-18	C00108424DB92 - 5 day	402d	[] Design QA/QC B-682, B-683 & B-684 Stage II Submission
B.3.5.6	203	Submit B-682, B-683 & B-684 Stage II Submission	1d 12-03-	18 12-03-18	C00108424DB92 - 5 day	402d	1 Submit Bi-682, B-683 & B-684 Stage II Submission
B.3.5.6	204	VDOT/FHWA Review/Approval B-682, B-683 & B-684 Stage II Submission	21d 12-03-	18 12-24-18	C00108424DB92 - 7 day	580d	□ VDOT/FHWA Review/Approval B-682, B-684 Stage II Submission
B.3.5.6	205	Final Revisions, VDOT/FHWA Reivew&Approval and Released for Construction(RFC) Pla	12d 12-26-	18 01-11-19	C00108424DB92 - 5 day	402d	☐ Final Revision's, VDOT/FHWA Reivew&Approval and Released for Construction(RFC) PI
B.3.5.6	206	Bridge Construction Unit Cost Report (w/in 90 Days of RFC)	90d 01-11-	19 04-11-19	C00108424DB92 - 7 day	579d	Bridge Construction Unit Cost Report (w/in/90 Days of RFC)
C00108424DB92	.B.3.5.7 Bridge	B-675, B-677, B-678, B-679 & B-686 Repairs	214d 06-13-	18 04-08-19	_	416d	C00108424DB92;B.3.5.7 Bridge B-675, B-677, B-678, B-679 & B-686 Repairs
B.3.5.7	208	Prepare Bridge Repair Reports/Const Stages/Demo&Erection Plans/TS&L (Stage I) Subm	62d 06-13-	18 09-10-18	C00108424DB92 - 5 day	94d	Prepare Bridge Repair Reports/Const Stages/Demo&Erection Plans/TS&L (Stage I) Submission
B.3.5.7	209	Submit Bridge Repairs Stage I Submission	1d 09-11-		C00108424DB92 - 5 day	94d	I Submit Bridge Repairs Stage I Submission
B.3.5.7	210	VDOT/FHWA Review, Comment & Approve Bridge Repairs Stage I Submission	21d 09-11-		C00108424DB92 - 7 day	135d	DOT/FHWA Review, Comment & Approve Bridge Repairs Stage I Submission
B.3.5.7	211	Address Comments and Prepare Bridge Repairs Final Plans (Stage II) Submission	30d 10-03-		C00108424DB92 - 5 day	94d	Address Comments and Prepare Bridge Repairs Final Plans (Stage II) Submission
B.3.5.7	212	Design QA/QC Bridge Repairs Stage II Submission	11d 11-14-		C00108424DB92 - 5 day	94d	□ Design QA/QC Bridge Repairs Stage II Submission
B.3.5.7	213	Submit Bridge Repairs Stage II Submission	1d 11-30-		C00108424DB92 - 5 day	94d	Submit Bridge Repairs Stage II Submission
B.3.5.7	214	VDOT/FHWA Review/Approval Bridge Repairs Stage II Submission	21d 11-30-		C00108424DB92 - 7 day	136d	□ VDQT/FHWA Review/Approval Bridge Repairs Stage II Submission
B.3.5.7	215	Final Revisions, VDOT/FHWA Reivew&Approval and Released for Construction(RFC) Pla	10d 12-24-		C00108424DB92 - 5 day	93d	☐ Final Revisions, VDOT/FHWA Reivew&Approval and Released for Construction(RFC) Pl
B.3.5.7	216	Bridge Construction Unit Cost Report (w/in 90 Days of RFC)	90d 01-08-	19 04-08-19	C00108424DB92 - 7 day	582d	Bridge Construction Unit Cost Report (w/in/90 Days; of RRC); G00108424DB92.B.3;6 Retaining Wall Design

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108424DB92			I-66 Eastbound W	/idening Insi	de the Beltway Technical	Proposal	09-25-17
ath	Activity ID	Activity Name	Original Start	Finish	Calendar	Total Float	
B.3.6.1	219	Prepare RW 1 & RW 2 Preliminary Submission	4d 02-27-18	03-02-18	C00108424DB92 - 5 day	19d	Prepare RW 1 & RW 2 Preliminary/Submission
B.3.6.1	220	Submit RW 1 & RW 2 Preliminary Submission	1d 03-05-18	03-02-10	C00108424DB92 - 5 day	19d	Submit RW 1 & RW 2 Preliminary Submission
B.3.6.1	221	VDOT/FHWA Review, Comment & Approve RW1 & RW 2 Preliminary Submission	21d 03-05-18	03-03-18	C00108424DB92 - 7 day	28d	D: VDQT/FHWA Review, Comment;& Approve RW1 & RW;2 Preliminary Submission;
B.3.6.1	222	Address Comments and Prepare RW 1 & RW 2 Final Plans (Stage II) Submission	9d 03-27-18	03-20-18	C00108424DB92 - 7 day	19d	Address Comments and Prepare RW 1 & RW 2 Final Plans (Stage II) Submission
B.3.6.1	223	Design QA/QC RW 1 & RW 2 Stage II Submission	2d 04-10-18	04-09-18	C00108424DB92 - 5 day	37d	Design QA/QC RW/1 & RW/2 Stage III Submission
B.3.6.1	224	Submit RW 1 & RW 2 Stage II Submission	1d 05-07-18	05-07-18	C00108424DB92 - 5 day	29d	I Submit RW;1 & RW;2 \$tage II Submission
B.3.6.1	225	VDOT/FHWA Review/Approval RW 1 & RW 2 Stage II Submission	21d 05-07-18	05-07-18	C00108424DB92 - 7 day	42d	□ VDQT/FHW'A Review/Approval RW 1 & RW/2 Stage II Submission
B.3.6.1	226		4d 05-29-18	06-01-18	-		Final Revisions, Released for Construction(RFC); RW 1 & RW 2 Plans
		Final Revisions, Released for Construction(RFC) RW 1 & RW 2 Plans			C00108424DB92 - 5 day	29d	☐ G00108424DB92.B.3.6.2 Segment 2B Retaining Walls \$ta 12+28 to 16+50 Ramp I (RW)
		nt 2B Retaining Walls Sta 12+28 to 16+50 Ramp I (RW 3) & Sta 193+10 to 198+90 (RW 4)	259d 01-29-18	01-25-19	C00400424DD02 E day	142d	
B.3.6.2	228	Prepare RW 3 & RW 4 Preliminary Submission	7d 01-29-18	02-06-18	C00108424DB92 - 5 day	306d	Prépaire RW 3 & RW 4 Preliminary Submission
B.3.6.2	229	Submit RW 3 & RW 4 Preliminary Submission	1d 04-10-18	04-10-18	C00108424DB92 - 5 day	269d	Submit RW:3 & RW:4 Preliminary Submission
B.3.6.2	230	VDOT/FHWA Review, Comment & Approve RW 3 & RW 4 Preliminary Submission	21d 04-10-18	05-01-18	C00108424DB92 - 7 day	386d	VDOT/FHWA Review, Comment & Approve RW 3 & RW 4 Preliminary Submission
B.3.6.2	231	Address Comments and Prepare RW 3 & RW 4 Final Plans (Stage II) Submission	20d 07-05-18	08-01-18	C00108424DB92 - 5 day	225d	Address Comments and Prepare RW/3 & RW/4 Final Plans (Stage II) Submission
B.3.6.2	232	Design QA/QC RW 3 & RW 4 Stage II Submission	3d 08-02-18	08-06-18	C00108424DB92 - 5 day	225d	I Design QA/QC RW 3 & RW 4 Stage II Submis/sion
B.3.6.2	233	Submit RW 3 & RW 4 Stage II Submission	1d 12-27-18	12-27-18	C00108424DB92 - 5 day	138d	Submit RW 3 & RW 4 Stage II Submission
B.3.6.2	234	VDOT/FHWA Review/Approval RW 3 & RW 4 Stage II Submission	21d 12-27-18	01-17-19	C00108424DB92 - 7 day	200d	□ VDOT/FHWA Review/Approval RW 3 & RW 4 Stage II Submission
B.3.6.2	235	Final Revisions, Released for Construction(RFC) RW 3 & RW 4 Plans	6d 01-18-19	01-25-19	C00108424DB92 - 5 day	139d	Final Revisions Released for Construction (RFC) RW 3'& RW 4 Plans
C00108424DB9	2.B.3.6.3 Segmen	nt 3B Retaining Walls Sta 283+50 to 284+10 (RW7)	252d 02-07-18	01-25-19		142d	C00108424DB92.B.3.6.3 Segment 3B Retaining Walls \$ta;283+50 to 284+10 (RW7)
B.3.6.3	237	Prepare RW 7 Preliminary Submission	6d 02-07-18	02-14-18	C00108424DB92 - 5 day	306d	I Prepare RW 7 Prelimiņary Submission
B.3.6.3	238	Submit RW 7 Preliminary Submission	1d 04-10-18	04-10-18	C00108424DB92 - 5 day	269d	I Submit RW7 Preliminary Submission
B.3.6.3	239	VDOT/FHWA Review, Comment & Approve RW 7 Preliminary Submission	21d 04-10-18	05-01-18	C00108424DB92 - 7 day	386d	; ☐ VDDT/FHWA Review, Comment & Approve; RW 7 Preliminary Submission
B.3.6.3	240	Address Comments and Prepare RW 7 Final Plans (Stage II) Submission	20d 07-13-18	08-09-18	C00108424DB92 - 5 day	219d	🛱 Address Comments and Prepare RW 7 Final Plans (Stage II) Submission
B.3.6.3	241	Design QA/QC RW 7 Stage II Submission	3d 08-10-18	08-14-18	C00108424DB92 - 5 day	219d	■ Design QA/QC RW 7 Stage II Submission
B.3.6.3	242	Submit RW 7 Stage II Submission	1d 12-27-18	12-27-18	C00108424DB92 - 5 day	138d	l Submit RW 7 Stage II Submission
B.3.6.3	243	VDOT/FHWA Review/Approval RW 7 Stage II Submission	21d 12-27-18	01-17-19	C00108424DB92 - 7 day	200d	UDGT/FHWA Review/Approval RW 7 Stage II Submission
B.3.6.3	244	Final Revisions, Released for Construction(RFC) RW 7 Plans	6d 01-18-19		C00108424DB92 - 5 day	139d	I Final Revisions, Released for Construction(RFC) RW 7 Plans ▼ C00108424DB92.B.3.7 Landsdape Archittecture & Tree Preservation
C00108424DB92.E	246	Archittecture & Tree Preservation Develop Preliminary Landscaping Design & Tree Preservation Plan	93d 10-04-18 10d 10-04-18	10-17-18	C00108424DB92 - 5 day	329d 319d	Develop Preliminary Landscaping Design & Tree Preservation
B.3.7	247	QA/QC Landscaping & Tree Preservation Plan	2d 10-18-18	10-19-18	C00108424DB92 - 5 day	319d	I QA/QC Landscaping & Tree Preservation Plan
B.3.7	248	Submit Preliminary Landscaping Design to VDOT	1d 10-22-18	10-22-18	C00108424DB92 - 5 day	337d	Submit Preliminary:Landscaping Design to VDOT
B.3.7	249	Submit Preliminary Landscaping Design & VDO1 Submit Preliminary Landscaping Design & Tree Preservation to Arlington County (AC) & N		10-22-18	C00108424DB92 - 5 day	319d	I Submit Preliminary;Landscaping Design & Tree Preservation to Arlington County (AC) & NOVA Pa
B.3.7	250		21d 10-22-18	11-12-18	C00108424DB92 - 7 day	485d	VDOT Review, Comment and Approve Preliminary Landscaping Design
B.3.7	251	VDOT Review, Comment and Approve Preliminary Landscaping Design		12-06-18	-		AC & NQVA Parks Review and Comment on Preliminary Landscaping Design; and Tree Prese
B.3.7		AC & NOVA Parks Review and Comment on Preliminary Landscaping Design and Tree Pr		_	C00108424DB92 - 7 day	461d	
2.0	252	Address Comments and Develop Final Landscaping Design & Tree Preservation Plan	10d 12-07-18	12-20-18	C00108424DB92 - 5 day	320d	Address Comments and Develop Final Landscaping Design & Tree Preservation Plan II Design QA/QC Final Landscaping Design & Tree Preservation Plan
B.3.7	253	Design QA/QC Final Landscaping Design & Tree Preservation Plan	2d 12-21-18		C00108424DB92 - 5 day	320d	
B.3.7	254	Submit Final Landscaping Design to VDOT	1d 12-27-18	12-27-18	C00108424DB92 - 5 day	336d	I Submit Final Landscaping Design to VDOT
B.3.7	255	Submit Final Landscaping Design & Tree Preservation Plan Application to AC & NOVA Par	1d 12-27-18	12-27-18	C00108424DB92 - 5 day	319d	I Submit Final Landscaping Design & Tree Preservation Plan Application to AC & NOVA Parks
B.3.7	256	VDOT Review, Comment and Approve Final Landscaping Design	21d 12-27-18	01-17-19	C00108424DB92 - 7 day	483d	VDOT Review, Comment and Approve Final Landscaping Design
B.3.7	257	AC & NOVA Parks Review and Approve Final Landscaping Design & Tree Preservation P		02-10-19	C00108424DB92 - 7 day	459d	AC & NOVA Parks Review and Approve Final Landscaping Design & Tree Preservation
B.3.7	258	Released for Construction Landscaping & Tree Preservation Plan	1d 02-11-19	02-11-19	C00108424DB92 - 5 day	321d	Released for Construction Landscaping & Tree Preservation Plan
C00108424DB92.B.4			289d 01-08-18			218d	C00108424DB92.B;4 Environmental
C00108424DB92.E	3.4.1 Hazardous I		61d 01-30-18			414d	C00108424DB92.B.411 Hazardous Materials
B.4.1	261	Prepare/Submit Spill Prevention, Control and Countermeasure Plan (SPCC) Contractor a		_	C00108424DB92 - 5 day	77d	Prepare/Submit Spill Prevention, Control and Countermeasure Plan (SPCC) Contractor activity
B.4.1	262	VDOT Review/Approval SPCC	21d 02-19-18	_	C00108424DB92 - 7 day	111d	i
B.4.1	263	Perform Asbestos Inspection On All Structures & Submit Reports	21d 02-05-18	03-05-18	C00108424DB92 - 5 day	101d	Perform Asbestos Inspection On All Structures & Submit Reports
B.4.1	264	Develop & Submit Hazardous Material Phase II ESA	41d 02-05-18	04-03-18	C00108424DB92 - 5 day	405d	Develop & Submit Hazardous Material Phase II E\$A
B.4.1	265	VDOT/FHWA Hazardous Material Phase II ESA - Hold Point & Endangered Species	21d 04-03-18 11d 06-11-18		C00108424DB92 - 7 day	581d 23d	
	92.B.4.2.1 Bat Spe		11d 06-11-18		C00108424DB92 - 5 day	23d	▼ C00108424DB92.B.4;2.1 Bat Species Inventory
B.4.2.1	268	T&E Bat Inventory - Bridges	10d 06-11-18	06-22-18	C00108424DB92 - 5 day	23d	□ T&E:Bat Inventory- Bridges
B.4.2.1	269	Submit Bat Inventory Form to VDOT	1d 06-25-18		C00108424DB92 - 5 day	23d	I, Submit, Bat Inventory Form to VDOT
	3.4.3 Environmen	,	274d 01-29-18	02-15-19		218d	C00108424DB92.Bl.4.3 Environmental Permits
		mantal Daniel and Bankland	2254 01 20 19	12 21 10	C00108424DB92 - 5 day	232d	▼ C00108424DB92.B.4.3.1 Environmental Permit applications
C00108424DB9	92.B.4.3.1 Environ	mental Permit applications	235d 01-29-18	12-31-10	C00100424DB92 - 5 day	2020	The state of the s
C00108424DB9 B.4.3.1	92.B.4.3.1 Environ 272	Wetland Field Studies for Borrow, Stages, Access	13d 01-29-18		C00108424DB92 - 5 day	19d	☐ Wetland Field Studies for Borrow, Stages, Access

Remaining Level of Effort Critical Remaining ... Actual Work Actual Level of Effort Remaining Work ◆ Milestone

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		Activity ID	Activity Name	Original Start	Finish	Calendar	Total	
				Duration				Oat OND J FMAMJ J ASOND J FMAMJ J ASOND J FMAM
	B.4.3.1	274	Develop and Submit VPDES Stormwater General Permit Application & SWPPP Segment	ent 1 8d 04-10-18	04-19-18	C00108424DB92 - 5 day	19d	9d Develop and Submit VPDES Stormwater General Permit Application & SWPPP Segment 1A & B
		275	Develop and Submit VPDES Stormwater General Permit Application & SWPPP Rema		12-31-18	C00108424DB92 - 5 day	214d	
		276	Request EQ-201 NEPA Re-evaluation for ROW	1d 05-16-18	05-16-18	C00108424DB92 - 5 day	25d	
	-	277	Request EQ-200 NEPA Re-eval.& EQ-103 NEPA Certification/Commitments for Cons		05-07-18	C00108424DB92 - 5 day	23d	
_		278	Request EQ-200 NEPA Re-eval.& EQ-103 NEPA Certification/Commitments for Cons		12-27-18	C00108424DB92 - 5 day	234d	
			e & Approval of Environmental Permits	338d 03-14-18	02-15-19	C00108424DB92 - 7 day	306d	
		280	Agency Reviews and Issuance of Section 404 Permit, WPP, SBP, TWP - Hold Point	60d 03-14-18	05-13-18	C00108424DB92 - 7 day	28d	
		281	Agency Reviews and Issuance of VPDES Stormwater General Permit & SWPPP Sec	•	05-14-18	C00108424DB92 - 7 day	27d	
		282	Agency Reviews and Issuance of VPDES Stormwater General Permit & SWPPP Rel		01-25-19	C00108424DB92 - 7 day	306d	
		283	VDOT Review and Approve EQ-201 NEPA Re-evaluation for ROW - Hold Point	21d 05-16-18	06-06-18	C00108424DB92 - 7 day	36d	
		284	VDOT Rvw.&Approve EQ-200 NEPA Re-eval.& EQ-103 NEPA Certify/Commitments f		06-04-18	C00108424DB92 - 7 day	27d	
		285	VDOT Rvw.&Approve EQ-200 NEPA Re-eval.& EQ-103 NEPA Certify/Commitments f			C00108424DB92 - 7 day	306d	
	08424DB92.B.4.4			126d 01-08-18			75d	5d C00108424DB92.B.4.4 Noise Abatment
B.4		287	Complete Final Noise Impact Report	110d 01-08-18	06-12-18	C00108424DB92 - 5 day	73d	
B.4		288	VDOT Review/Approval Noise Wall Design	21d 06-12-18	07-03-18	C00108424DB92 - 7 day	105d	15d Design VDOT. Review/Approval Noise Wall Design
	124DB92.B.5 Righ '	<u> </u>		307d 04-04-18	06-09-19	0004004045555	342d	
B.5		290	Prepare and Submit Acquisition Plan including Proposed Appraisers & Reviewers	20d 04-04-18	05-01-18	C00108424DB92 - 5 day	344d	
B.5		291	VDOT Review and Approve Acquisition Plan Inc. EQ-201 Revaluation - Hold Point	21d 05-01-18	05-22-18	C00108424DB92 - 7 day	496d	
B.5		292	VDOT Issue Notice to Proceed for ROW Acquisitions- Hold Point	1d 06-08-18	06-08-18	C00108424DB92 - 5 day	333d	
B.5		293	Goodwill Letters, Title Searches, Appraisals, Appraisal Reviews, Basic Administrative	•	08-06-18	C00108424DB92 - 5 day	333d	
B.5		294	VDOT Rvw & Approval Appraisal Packages, Just Compensation, Relocation Benefits		09-05-18	C00108424DB92 - 5 day	333d	
B.5		295	Initiate ROW/Easements Negotiations, Acquisition incl. RW24's	40d 07-18-18	09-12-18	C00108424DB92 - 5 day	333d	
B.5		296	Make Offers to Property Owners	40d 08-29-18	10-24-18	C00108424DB92 - 5 day	333d	
B.5		297	Property Owner Accepts Offer	120d 09-13-18	03-04-19	C00108424DB92 - 5 day	342d	
B.5		298	Request Right of Entry-As Necessary	120d 08-29-18	02-18-19	C00108424DB92 - 5 day	352d	
B.5		299	Property Owner Accepts ROE	120d 09-28-18	03-19-19	C00108424DB92 - 5 day	352d	_
		300	VDOT Issue Certificate of Take and Files in Court, if Impasse is Reached	120d 10-11-18	04-01-19	C00108424DB92 - 5 day	343d	
B.5		301	VDOT Process Vouchers for Payments for Acquisitions	120d 10-25-18	04-15-19	C00108424DB92 - 5 day	333d	
B.5 B.5		302	Closing and Settlement Payment Disbursement and Indefensible Title to VDOT-Acquis		05-14-19	C00108424DB92 - 5 day	333d 478d	
	124DB92.B.6 Utiliti		VDOT/FHWA Issue Clearance for Construction - Acquisitions-Hold Point	21d 05-19-19 264d 01-18-18	01-23-19	C00108424DB92 - 7 day	478d 469d	
	08424DB92.B.6.1		tion	35d 01-18-18		C00108424DB92 - 5 day	32d	7 C00108424DB92\B.6.1 Utility D'elineation
B.6		306	Prepare Property Owner Notification Letters for Subsurface Utility Engineering (SUE)		01-18-18	C00108424DB92 - 5 day	32d	
B.6		307	Perform SUE Designations and Test Holes	20d 02-08-18	03-07-18	C00108424DB92 - 5 day	32d	
B.6		308	Prepare Test Hole Data Sheets , UT9's	15d 02-15-18		C00108424DB92 - 5 day	32d	
	08424DB92.B.6.2		, ·	173d 02-20-18		000000000000000000000000000000000000000	537d	7d ▼ C00108424DB92.B.6.2 Utility Coordination
B.6		310	Meet with VDOT Regional Utility Manager 45 days after NTP	1d 02-22-18		C00108424DB92 - 7 day	83d	
B.6		311	Preliminary Utility Field Inspection (PUFI) Meeting with Utility Owners	5d 02-20-18	02-26-18	C00108424DB92 - 5 day	30d	
B.6		312	Determine Prior Rights, Update UT9's	30d 03-27-18	05-08-18	C00108424DB92 - 5 day	71d	
B.6		313	Utility Field Inspection (UFI) Meeting with Utility Owners	6d 02-23-18	03-02-18	C00108424DB92 - 5 day	58d	8d Utility Field Inspection (UFI) Meeting with: Utility: Owners:
B.6		314	Prepare Preliminary Utility Status Report due 120 days after NTP	15d 04-23-18		C00108424DB92 - 7 day	0d	
B.6		315	Obtain Easement Requirements	15d 02-27-18	03-19-18	C00108424DB92 - 5 day	30d	
B.6		316	Prepare and Submit Cert All Utilities Identified & Addressed	1d 10-19-18		C00108424DB92 - 5 day	523d	
	08424DB92.B.6.3		·	81d 03-05-18			79d	9d C00108424DB92.B.6;3 Utility Design
	0108424DB92.B.6	, ,	location Design	81d 03-05-18			59d	
		319	Utilities Prepare Plan & Estimate/Letter of No Cost/Submit to D-B	59d 03-05-18	05-25-18	C00108424DB92 - 5 day	58d	
		320	D-B Review & Approve Plan & Estimate/Submit to VDOT for Approval	5d 05-29-18	06-04-18	C00108424DB92 - 5 day	58d	
		321	VDOT Review & Approve Utility Assembly	21d 06-04-18	06-25-18	C00108424DB92 - 7 day	83d	
_	B.6.3.1	322	D-B Issues Authorization to Proceed w/Util Relocation	1d 06-26-18	06-26-18	C00108424DB92 - 5 day	57d	
C00	0108424DB92.B.6	.3.2 Utility P8	E Development	59d 03-05-18	05-25-18	C00108424DB92 - 5 day	58d	
	B.6.3.2	324	Dominion Energy (DE)	59d 03-05-18		C00108424DB92 - 5 day	58d	
		325	Dominion Energy - Transmission (DET)	59d 03-05-18	_	C00108424DB92 - 5 day	58d	
		326	AT&T (ATT)	59d 03-05-18	05-25-18	C00108424DB92 - 5 day	58d	
	B.6.3.2	329	Cox Communications (CC)	59d 03-05-18	_	C00108424DB92 - 5 day	58d	
_	D.0.0.2					-		
ı	0108424DB92.B.6	.3.3 No Conf	ict Utilities	6d 03-05-18	03-12-18	C00108424DB92 - 5 day	151d	id

08424DB92			I-66 Eastbound W	/idening Insi	de the Beltway Technical	Proposal	09-25-17
th	Activity ID	Activity Name	Original Start	Finish	Calendar	Total Float	
B.6.3.3	327	Qwest Government Services, Inc. (QGS) Confirm No Conflict	5d 03-05-18	03-09-18	C00108424DB92 - 5 day	151d	I Qwest Government Services, Inc. (QGS) Confirm No Conflict
B.6.3.3	328	QGS Submit Letter of no Conflict to VDOT	1d 03-12-18	03-12-18	C00108424DB92 - 5 day	151d	QGS Submit Liettler of no Conflict to VDOT
B.6.3.3	330	Zayo Group (ZG) Confirm No Conflicts	5d 03-05-18	03-09-18	C00108424DB92 - 5 day	151d	Il Zayo Group (ZG) Confirm No Conflicts
B.6.3.3	331	ZG Submit Letter of No Conflict to VDOT	1d 03-12-18	03-12-18	C00108424DB92 - 5 day	151d	I ZG Submit Letter of No Conflict to VDOT
B.6.3.3	332	Verizon Virginia, LLC (VV) Confirm No Conflicts	5d 03-05-18	03-09-18	C00108424DB92 - 5 day	151d	II Verizon Virginia, LLC (VV):Confirm No Conflicts
B.6.3.3	333	VV Submit Letter of No Conflict to VDOT	1d 03-12-18	03-12-18	C00108424DB92 - 5 day	151d	I W Submit Letter of No Conflict to VDOT
B.6.3.3	334	Verizon Business -MCI (VB) Confirm No Conflicts	5d 03-05-18	03-09-18	C00108424DB92 - 5 day	151d	□ Verizon Business -MCI (VB) Confirm No Conflicts
B.6.3.3	335	VB Submit Letter of No Conflict to VDOT	1d 03-12-18	03-12-18	C00108424DB92 - 5 day	151d	I VB Submit Letter of No Conflict to VDOT
B.6.3.3	336	Summit IG (SIG) Confirm No Conflicts	5d 03-05-18	03-09-18	C00108424DB92 - 5 day	151d	Summit [G (SIG):Confirm No Conflicts
B.6.3.3	337	SIG Submit Letter of No Conflict to VDOT	1d 03-12-18	03-12-18	C00108424DB92 - 5 day	151d	I SIG Submit Letter of No Conflict to VDOT
B.6.3.3	338	Level 3 Communications (L3) Confirm No Conflicts	5d 03-05-18	03-09-18	C00108424DB92 - 5 day	151d	,I Level,3 Communications (L3) Confirm No Conflicts
B.6.3.3	339	L3 Submit Letter of No Conflict to VDOT	1d 03-12-18	03-12-18	C00108424DB92 - 5 day	151d	I L3 Submit Letter of No Conflict to VDOT
B.6.3.3	340	Washington Gas (WS) Confirm No Conflicts	5d 03-05-18	03-09-18	C00108424DB92 - 5 day	151d	
B.6.3.3	341	WS Submit Letter of No Conflict to VDOT	1d 03-12-18	03-12-18	C00108424DB92 - 5 day	151d	I WS Submit Letter of No Conflict to VDOT
B.6.3.3	342	Fairfax Water Authority (FWA) Confirm No Conflicts	5d 03-05-18	03-09-18	C00108424DB92 - 5 day	151d	
B.6.3.3	343	FWA Submit Letter of No Conflict to VDOT	1d 03-12-18	03-12-18	C00108424DB92 - 5 day	151d	I FWASubmit Letter of No Conflict to VDQT
B.6.3.3	344	County of Fairfax Depart. Of Public Works & Envy. Services (CFDE) Confirm No Conflicts	5d 03-05-18	03-09-18	C00108424DB92 - 5 day	151d	County of Fairfax Depart. Of Public Works & Envly. Services (CFDE) Confirm No Conflicts
B.6.3.3	345	CDFE Submit Letter of No Conflict to VDOT	1d 03-12-18	03-12-18	C00108424DB92 - 5 day	151d	I CDFE Submit Letter, of No Conflict to VDOT
B.6.3.3	346	Arlington County Department of Environment Services (ACE) Confirm No Conflicts	5d 03-05-18	03-09-18	C00108424DB92 - 5 day	151d	Arlington County Department of Environment Services (ACE) Confirm No Conflicts
B.6.3.3	347	ACE Submit Letter of No Conflict to VDOT	1d 03-12-18	03-12-18	C00108424DB92 - 5 day	151d	I ACE Submit Letter of No Conflict to VDOT
C00108424DB92.B.	.6.4 Utility Reloca	ation Construction	126d 07-26-18	01-23-19	C00108424DB92 - 5 day	458d	√ G00108424DB92.B.6;4 Utility Relocation Construction
B.6.4	349	Utility Performs Relocation	60d 07-26-18	10-18-18	C00108424DB92 - 5 day	57d	Utility Performs Relocation
B.6.4	350	Utility As Builts from Utility	1d 01-16-19	01-16-19	C00108424DB92 - 5 day	458d	I Utility As Builts from Utility
B.6.4	351	Utility As Builts Review and Submittal to VDOT	5d 01-17-19	01-23-19	C00108424DB92 - 5 day	458d	D: Utility As Builts Review and Submittal to VDOT
C00108424DB92.B.7	Public Involveme	nt	930d 01-09-18	08-03-21		0d	
B.7	353	Submit Emergency Contact List & Response Plan	5d 01-09-18	01-15-18	C00108424DB92 - 5 day	81d	Submit Emergency Contact List & Response Plan
B.7	354	Develop Public Information Log/Database	20d 01-09-18	01-28-18	C00108424DB92 - 7 day	101d	Develop Public Information Log/Database
B.7	355	Public Information Preparation & Release and Content for Project Website	846d 04-05-18	08-03-21	C00108424DB92 - 5 day	0d] : : : : : : : : : : : : : : : : : : :
B.7	356	Public Meeting to Present Bridge 680 Preliminary Design	1d 04-04-18	04-04-18	C00108424DB92 - 5 day	164d) Public Meeting to Present Bridge 680 Preliminary Design
B.7	357	Pardon Our Dust and Other Stakeholders Meetings	846d 04-05-18	08-03-21	C00108424DB92 - 5 day	0d	i i i i i i i i i i i i i i i i i i i
C00108424DB92.B.8	Construction Sub	omittals	367d 03-06-18	03-08-19	C00082135DB77 - 7 Day	823d	C00108424DB92;B.8 Construction Submittals
B.8	475	Girder Shop Drawings B-675	21d 03-06-18	03-27-18	C00082135DB77 - 7 Day	80d	☐ Girder Shop Drawings B-675
B.8	476	SOE Design B-675	21d 03-06-18	03-27-18	C00082135DB77 - 7 Day	112d	III SOE Design B-675
B.8	477	Demolition Plan B-675	7d 06-29-18	_	C00082135DB77 - 7 Day	25d	D Demolition Plan B-675
B.8	478	Erection Plan B-675	7d 06-29-18	07-06-18	C00082135DB77 - 7 Day	69d	D Erection Plan B-675
B.8	479	Deck Forming Submittal B-675	21d 03-27-18	04-17-18	C00082135DB77 - 7 Day	155d	□ Deck Forming Submittal B-675
	480	Noise Barrier Shop Drawings B-675	21d 07-02-18	07-23-18	C00082135DB77 - 7 Day	285d	Noise Bartier Shop Drawings B-675
B.8		Girder Shop Drawings B-677	21d 03-06-18	03-27-18	C00082135DB77 - 7 Day	246d	□ Girder;Shop Drawings B-677
B.8	481						
B.8 B.8	482	SOE Design B-677	21d 03-06-18	03-27-18	C00082135DB77 - 7 Day	218d	SOE Design B-677
B.8 B.8 B.8	482 483	Demolition Plan B-677	7d 06-29-18	07-06-18	C00082135DB77 - 7 Day	153d	Demolition Plan B-677
B.8 B.8 B.8	482 483 484	Demolition Plan B-677 Erection Plan B-677	7d 06-29-18 7d 06-29-18	07-06-18 07-06-18	C00082135DB77 - 7 Day C00082135DB77 - 7 Day	153d 235d	I Demolitidn Plan B-677 I Erection Plan B-677
B.8 B.8 B.8 B.8	482 483 484 485	Demolition Plan B-677 Erection Plan B-677 Deck Forming Submittal B-677	7d 06-29-18 7d 06-29-18 21d 03-27-18	07-06-18 07-06-18 04-17-18	C00082135DB77 - 7 Day C00082135DB77 - 7 Day C00082135DB77 - 7 Day	153d 235d 322d	☐ Demolition Plan B-677 ☐ Erection Plan B-677 ☐ Deck Forming Submittal B-677
B.8 B.8 B.8 B.8 B.8	482 483 484 485 486	Demolition Plan B-677 Erection Plan B-677 Deck Forming Submittal B-677 Girder Shop Drawings B-678	7d 06-29-18 7d 06-29-18 21d 03-27-18 21d 05-01-18	07-06-18 07-06-18 04-17-18 05-22-18	C00082135DB77 - 7 Day C00082135DB77 - 7 Day C00082135DB77 - 7 Day C00082135DB77 - 7 Day	153d 235d 322d 647d	☐ Demolition Plan B-677 ☐ Erection Plan B-677 ☐ Deck Forming Submittal B-677 ☐ Girder Shop Drawings B-678
B.8 B.8 B.8 B.8 B.8 B.8	482 483 484 485 486 487	Demolition Plan B-677 Erection Plan B-677 Deck Forming Submittal B-677 Girder Shop Drawings B-678 SOE Design B-678	7d 06-29-18 7d 06-29-18 21d 03-27-18 21d 05-01-18 21d 05-01-18	07-06-18 07-06-18 04-17-18 05-22-18	C00082135DB77 - 7 Day	153d 235d 322d 647d 681d	I Demolition Plan B-677 I Erection Plan B-677 □ Deck Forming Submittal B-677 □ Girder Shop Drawings B-678 □ SOE Design B-678
B.8 B.8 B.8 B.8 B.8 B.8 B.8	482 483 484 485 486 487 488	Demolition Plan B-677 Erection Plan B-677 Deck Forming Submittal B-677 Girder Shop Drawings B-678 SOE Design B-678 Demolition Plan B-678	7d 06-29-18 7d 06-29-18 21d 03-27-18 21d 05-01-18 21d 05-01-18 7d 10-19-18	07-06-18 07-06-18 04-17-18 05-22-18 05-22-18 10-26-18	C00082135DB77 - 7 Day	153d 235d 322d 647d 681d 531d	☐ Demolition Plan B-677 ☐ Erection Plan B-677 ☐ Deck Forming Submittal B-677 ☐ Girder Shop Drawings B-678 ☐ SOE Design B-678 ☐ Demolition Plan B-678
B.8 B.8 B.8 B.8 B.8 B.8 B.8 B.8	482 483 484 485 486 487 488 489	Demolition Plan B-677 Erection Plan B-677 Deck Forming Submittal B-677 Girder Shop Drawings B-678 SOE Design B-678 Demolition Plan B-678 Erection Plan B-678	7d 06-29-18 7d 06-29-18 21d 03-27-18 21d 05-01-18 21d 05-01-18 7d 10-19-18 7d 10-19-18	07-06-18 07-06-18 04-17-18 05-22-18 05-22-18 10-26-18	C00082135DB77 - 7 Day	153d 235d 322d 647d 681d 531d 580d	I Demolition Plan B-677 II Erection Plan B-677 □ Deck Forming Submittal B-677 □ Qirder Shop Drawings B-678 □ SOE Design B-678 II Demolition Plan B-678
B.8 B.8 B.8 B.8 B.8 B.8 B.8 B.8 B.8	482 483 484 485 486 487 488 489 490	Demolition Plan B-677 Erection Plan B-677 Deck Forming Submittal B-677 Girder Shop Drawings B-678 SOE Design B-678 Demolition Plan B-678 Erection Plan B-678 Deck Forming Submittal B-678	7d 06-29-18 7d 06-29-18 21d 03-27-18 21d 05-01-18 21d 05-01-18 7d 10-19-18 7d 10-19-18 21d 05-22-18	07-06-18 07-06-18 04-17-18 05-22-18 05-22-18 10-26-18 10-26-18 06-12-18	C00082135DB77 - 7 Day	153d 235d 322d 647d 681d 531d 580d 722d	
B.8	482 483 484 485 486 487 488 489 490	Demolition Plan B-677 Erection Plan B-677 Deck Forming Submittal B-677 Girder Shop Drawings B-678 SOE Design B-678 Demolition Plan B-678 Erection Plan B-678 Deck Forming Submittal B-678 Girder Shop Drawings B-679	7d 06-29-18 7d 06-29-18 21d 03-27-18 21d 05-01-18 21d 05-01-18 7d 10-19-18 7d 10-19-18 21d 05-22-18 21d 05-01-18	07-06-18 07-06-18 04-17-18 05-22-18 05-22-18 10-26-18 10-26-18 06-12-18 05-22-18	C00082135DB77 - 7 Day	153d 235d 322d 647d 681d 531d 580d 722d 560d	
B.8	482 483 484 485 486 487 488 489 490 491	Demolition Plan B-677 Erection Plan B-677 Deck Forming Submittal B-677 Girder Shop Drawings B-678 SOE Design B-678 Demolition Plan B-678 Erection Plan B-678 Deck Forming Submittal B-678 Girder Shop Drawings B-679 SOE Design B-679	7d 06-29-18 7d 06-29-18 21d 03-27-18 21d 05-01-18 21d 05-01-18 7d 10-19-18 7d 10-19-18 21d 05-22-18 21d 05-01-18 21d 05-01-18	07-06-18 07-06-18 04-17-18 05-22-18 05-22-18 10-26-18 10-26-18 06-12-18 05-22-18	C00082135DB77 - 7 Day	153d 235d 322d 647d 681d 531d 580d 722d 560d 624d	
B.8	482 483 484 485 486 487 488 489 490 491 492 493	Demolition Plan B-677 Erection Plan B-677 Deck Forming Submittal B-677 Girder Shop Drawings B-678 SOE Design B-678 Demolition Plan B-678 Erection Plan B-678 Deck Forming Submittal B-678 Girder Shop Drawings B-679 SOE Design B-679 Demolition Plan B-679	7d 06-29-18 7d 06-29-18 21d 03-27-18 21d 05-01-18 21d 05-01-18 7d 10-19-18 7d 10-19-18 21d 05-22-18 21d 05-01-18 21d 05-01-18 21d 05-01-18 7d 10-19-18	07-06-18 07-06-18 04-17-18 05-22-18 05-22-18 10-26-18 10-26-18 06-12-18 05-22-18 10-26-18	C00082135DB77 - 7 Day	153d 235d 322d 647d 681d 531d 580d 722d 560d 624d 466d	
B.8	482 483 484 485 486 487 488 489 490 491 492 493 494	Demolition Plan B-677 Erection Plan B-677 Deck Forming Submittal B-677 Girder Shop Drawings B-678 SOE Design B-678 Demolition Plan B-678 Erection Plan B-678 Deck Forming Submittal B-678 Girder Shop Drawings B-679 SOE Design B-679 Demolition Plan B-679 Erection Plan B-679	7d 06-29-18 7d 06-29-18 21d 03-27-18 21d 05-01-18 21d 05-01-18 7d 10-19-18 7d 10-19-18 21d 05-22-18 21d 05-01-18 21d 05-01-18 21d 05-01-18 7d 10-19-18 7d 10-19-18 7d 10-19-18	07-06-18 07-06-18 07-06-18 04-17-18 05-22-18 10-26-18 10-26-18 06-12-18 05-22-18 05-22-18 10-26-18 10-26-18	C00082135DB77 - 7 Day	153d 235d 322d 647d 681d 531d 580d 722d 560d 624d 466d 493d	
B.8	482 483 484 485 486 487 488 489 490 491 492 493 494 495	Demolition Plan B-677 Erection Plan B-677 Deck Forming Submittal B-677 Girder Shop Drawings B-678 SOE Design B-678 Demolition Plan B-678 Erection Plan B-678 Deck Forming Submittal B-678 Girder Shop Drawings B-679 SOE Design B-679 Demolition Plan B-679 Erection Plan B-679 Deck Forming Submittal B-679	7d 06-29-18 7d 06-29-18 21d 03-27-18 21d 05-01-18 21d 05-01-18 7d 10-19-18 21d 05-22-18 21d 05-01-18 21d 05-22-18 21d 05-01-18 21d 05-22-18	07-06-18 07-06-18 04-17-18 05-22-18 10-26-18 10-26-18 06-12-18 05-22-18 10-26-18 10-26-18 10-26-18 10-26-18 10-26-18	C00082135DB77 - 7 Day	153d 235d 322d 647d 681d 531d 580d 722d 560d 624d 466d 493d 631d	
B.8	482 483 484 485 486 487 488 489 490 491 492 493 494	Demolition Plan B-677 Erection Plan B-677 Deck Forming Submittal B-677 Girder Shop Drawings B-678 SOE Design B-678 Demolition Plan B-678 Erection Plan B-678 Deck Forming Submittal B-678 Girder Shop Drawings B-679 SOE Design B-679 Demolition Plan B-679 Erection Plan B-679	7d 06-29-18 7d 06-29-18 21d 03-27-18 21d 05-01-18 21d 05-01-18 7d 10-19-18 7d 10-19-18 21d 05-22-18 21d 05-01-18 21d 05-01-18 21d 05-01-18 7d 10-19-18 7d 10-19-18 7d 10-19-18	07-06-18 07-06-18 07-06-18 04-17-18 05-22-18 10-26-18 10-26-18 06-12-18 05-22-18 05-22-18 10-26-18 10-26-18	C00082135DB77 - 7 Day	153d 235d 322d 647d 681d 531d 580d 722d 560d 624d 466d 493d	

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108424DB92			I-66 Eastbound Wi	idening Insi	de the Beltway Technical F	Proposal		09-2
ath	Activity ID	Activity Name	Original Start Duration	Finish	Calendar	Total Float of		2018 2019 2020 2021
D.O.	400	Cirdos Chan Danvinso D COO		06-15-18	C00002425DD77 7 Day	372d		J J A S O N D J F M A M J J A
B.8	499	Girder Shop Drawings B-680	21d 05-25-18		C00082135DB77 - 7 Day	372d 332d		SOE Design B-680
B.8 B.8	500 501	SOE Design B-680	21d 05-25-18	06-15-18 06-15-18	C00082135DB77 - 7 Day			MSE Shop:Drawing B-680
		MSE Shop Drawing B-680	21d 05-25-18		C00082135DB77 - 7 Day	290d	 	□ Erection Plan B-680
B.8	502	Erection Plan B-680	7d 12-11-18	12-18-18	C00082135DB77 - 7 Day	216d		□ Deck Forming Submittal B-680
B.8	503 504	Deck Forming Submittal B-680	21d 06-15-18	07-06-18	C00082135DB77 - 7 Day	411d		☐ Fence Shop Drawing B-680
B.8		Fence Shop Drawing B-680	21d 02-15-19	03-08-19	C00082135DB77 - 7 Day C00082135DB77 - 7 Day	201d		Demolition Plan B-684
B.8	505	Demolition Plan B-684	7d 11-30-18	12-07-18	-	615d		□ Deck Forming Submittal B-684
B.8	506	Deck Forming Submittal B-684	21d 11-30-18	12-21-18	C00082135DB77 - 7 Day	627d		
B.8	507 508	Noise Barrier Shop Drawings B-684	21d 11-30-18	12-21-18	C00082135DB77 - 7 Day	640d		□ Noise Barrier Shop Drawings B-684 □ Demolition Plan B-683
B.8 B.8	509	Demolition Plan B-683	7d 11-30-18	12-07-18 12-21-18	C00082135DB77 - 7 Day	615d 627d		□ Deck Forming Submittal B-683
		Deck Forming Submittal B-683	21d 11-30-18		C00082135DB77 - 7 Day			
B.8	510	Noise Barrier Shop Drawings B-683	21d 11-30-18	12-21-18	C00082135DB77 - 7 Day	640d		☐ Noise Barfier Shop Drawlings B-683
B.8	511	Demolition Plan B-682	7d 11-30-18	12-07-18	C00082135DB77 - 7 Day	615d		□ Deck Forming Submittal B-682
B.8	512	Deck Forming Submittal B-682	21d 11-30-18	12-21-18	C00082135DB77 - 7 Day	627d		
B.8	513	Noise Barrier Shop Drawings B-682	21d 11-30-18	12-21-18	C00082135DB77 - 7 Day	640d		□ Noise Bartier Shop Drawlings B-682
B.8	514	Shop Drawing RW-1	21d 05-07-18	05-28-18	C00082135DB77 - 7 Day	239d		Shop Drawing RW-1
B.8	515	Shop Drawing RW-2	21d 05-07-18	05-28-18	C00082135DB77 - 7 Day	96d		Shop Drawing RW-2
B.8	516	Shop Drawing RW-3	21d 12-27-18	01-17-19	C00082135DB77 - 7 Day	508d		Shop Drawing RW-3
B.8	517	Shop Drawing RW-4	21d 12-27-18	01-17-19	C00082135DB77 - 7 Day	430d		□ Shop Drawing RW-4
B.8	520	Shop Drawing RW-7	21d 12-27-18	01-17-19	C00082135DB77 - 7 Day	487d		□ Shop Drawing RW-7
B.8	521	Shop Drawing Noise Barrier C1	21d 07-03-18	07-24-18	C00082135DB77 - 7 Day	105d		☐ Shop Drawing Noise Barrier C1
B.8	522	Shop Drawing Noise Barrier D1 & D2	21d 07-03-18	07-24-18	C00082135DB77 - 7 Day	1050d		Shop Drawing Noise Barrier D1 & D2
B.8	524	Shop Drawing Noise Barrier E1	21d 07-03-18	07-24-18	C00082135DB77 - 7 Day	497d		☐ Shop Drawing Noise Barrier E1
B.8	525	Shop Drawing Noise Barrier H1	21d 07-03-18	07-24-18	C00082135DB77 - 7 Day	677d		Shop Drawing Noise Barrier H1
B.8	526	Shop Drawing Noise Barrier N1	21d 07-03-18	07-24-18	C00082135DB77 - 7 Day	185d		Shop Drawing Noise Barrier N1
B.8	527	Shop Drawing Noise Barrier O	21d 07-03-18	07-24-18	C00082135DB77 - 7 Day	185d		Shop Drawing Noise Barrier O
B.8	528	Shop Drawing Noise Barrier P	21d 07-03-18	07-24-18	C00082135DB77 - 7 Day	720d		Shop Drawing Noise Barrier P
C00108424DB92.B.	.9 Acquisitions		406d 03-27-18	05-07-19	C00082135DB77 - 7 Day	793d	· · · · · · · · · · · · · · · · · · ·	C00108424DB92;B.9 Acquisitions
B.9	529	Fabricate and Deliver Girder B-675	90d 03-27-18	06-25-18	C00082135DB77 - 7 Day	80d		Fabricate and Deliver Girder B-675
B.9	530	Fabricate and Deliver Noise Barrier B-675	30d 07-23-18	08-22-18	C00082135DB77 - 7 Day	285d		Fabricate and Deliver Noise Barrier B-675
B.9	531	Fabricate and Deliver Girder B-677	90d 03-27-18	06-25-18	C00082135DB77 - 7 Day	246d		Fabricate and Deliver Girder B-677
B.9	532	Fabricate and Deliver Girder B-678	90d 05-22-18	08-20-18	C00082135DB77 - 7 Day	647d		Fabricate and Deliver Girder B-678
B.9	533	Fabricate and Deliver Girder B-679	90d 05-22-18	08-20-18	C00082135DB77 - 7 Day	560d		Fabricate and Deliver Girder B-679
B.9	534	Fabricate and Deliver Noise Barrier B-679	30d 11-12-18	12-12-18	C00082135DB77 - 7 Day	29d		Fabricate and Deliver Noise Barrier B-679
B.9	535	Fabricate and Deliver Girder B-680	30d 06-15-18	07-15-18	C00082135DB77 - 7 Day	372d		Fabricate and Deliver Girder B-680
B.9	536	Fabricate and Deliver MSE B-680	30d 06-15-18	07-15-18	C00082135DB77 - 7 Day	290d		Fabricate and Deliver MSE 8-680
B.9	537	Fabricate and Deliver Fence B-680	60d 03-08-19	05-07-19	C00082135DB77 - 7 Day	201d		Fabricate and Deliver Fence B-680
B.9	538	Fabricate and Deliver Noise Barrier B-684	30d 12-21-18	01-20-19	C00082135DB77 - 7 Day	640d		Fabricate and Deliver Noise Barrier B-684
B.9	539	Fabricate and Deliver Noise Barrier B-683	30d 12-21-18	01-20-19	C00082135DB77 - 7 Day	640d		Fabricate and Deliver Noise Barrier B-683
B.9	540	Fabricate and Deliver Noise Barrier B-682	30d 12-21-18	01-20-19	C00082135DB77 - 7 Day	640d		: : : : Fabricate and Deliver Noise Barrier B-682
B.9	542	Fabricate and Deliver RW-1	30d 05-28-18	06-27-18	C00082135DB77 - 7 Day	239d	•	■ Fabricate and Deliver RW-1
B.9	543	Fabricate and Deliver RW-2	30d 05-28-18	06-27-18	C00082135DB77 - 7 Day	96d		■ Fabricate and Deliver RW-2
B.9	544	Fabricate and Deliver RW-3	30d 01-17-19	02-16-19	C00082135DB77 - 7 Day	508d		Fabricate and Deliver RW-3
B.9	545	Fabricate and Deliver RW-4	30d 01-17-19	02-16-19	C00082135DB77 - 7 Day	430d		□ Fabricate and Deliver RW-4
B.9	548	Fabricate and Deliver RW-7	30d 01-17-19	02-16-19	C00082135DB77 - 7 Day	487d		Fabricate and Deliver RW-7
B.9	550	Fabricate and Deliver Noise Barrier C1	30d 07-24-18	08-23-18	C00082135DB77 - 7 Day	105d		Fabricate and Deliyer Noise Barrier C1
B.9	551	Fabricate and Deliver Noise Barrier D1 & D2	30d 07-24-18	08-23-18	C00082135DB77 - 7 Day	1050d		Fabricate and Deliver Noise Barrier D1 & D2
B.9	553	Fabricate and Deliver Noise Barrier E1	30d 07-24-18	08-23-18	C00082135DB77 - 7 Day	497d		Fabricate and Deliver Noise Barrier E1:
B.9	554	Fabricate and Deliver Noise Barrier H1	30d 07-24-18	08-23-18	C00082135DB77 - 7 Day	677d		Fabricate and Deliyer Noise Barrier H1
B.9	555	Fabricate and Deliver Noise Barrier N1	30d 07-24-18	08-23-18	C00082135DB77 - 7 Day	185d		Fabricate and Deliver Noise Barrier N1
B.9	556	Fabricate and Deliver Noise Barrier O	30d 07-24-18	08-23-18	C00082135DB77 - 7 Day	185d		□ Fabricate and Deliyer Noise Barrier O
B.9	557	Fabricate and Deliver Noise Barrier P	30d 07-24-18	08-23-18	C00082135DB77 - 7 Day	720d		Fabricate and Deliver Noise Barrier P
C00108424DB92.O I-6	66 EDA Design Pha	se	931d 01-08-18	08-03-21		0d		
C00108424DB92.O	.1 Scope Validation		107d 01-08-18	06-07-18		540d		▼ C00108424DB92;O:1 Scope Validation
0.1	363	Scope Validation Investigation and Findings (120 days)	120d 01-08-18	05-08-18	C00108424DB92 - 7 day	0d	S	Scope Validation Investigation and Findings (120 days)
Remaining Le	evel of Effort	Actual Work Critical Remaining		Page	e 8 of 24			Wagman Heavy Civil, Inc.

	A	ctivity ID	Activity Name	Original Start	Finish	Calendar	Total		2018 20	019 2020 2021
				Duration			Float	ONDJF	AMJJASONDJFMAMJ	J A S O N D J F M A M J J A S O N D J F M A M J J
0.1		64	Scope Validation Submission	0d	05-08-18*	C00108424DB92 - 5 day	0d		◆ Scope Validation Submission	
0.1		65	Scope Validation Discussions	30d 05-08-18		C00108424DB92 - 7 day	756d		Scope Validation Discussions	
	24DB92.O.2 Desig			262d 01-08-18			669d	V	▼ C00108424DE	
_	8424DB92.O.2.1 _D			56d 01-22-18			22d	1 1 1 1 1	C00108424DB92.O 2.1 Design Waiver	
0.2.		67	Verify DEs and DWs Implementation & Mitigation Measures	6d 01-22-18		C00108424DB92 - 5 day	22d	-4-4-4-7-4-	ify DEs and DWs Implementation & Mitigation	
0.2.		68	Complete New Exception(s)/Waiver(s) Application & Submit	15d 01-30-18	_	C00108424DB92 - 5 day	22d		Complete New Exception(s)/Waiver(s) Appli	çatıpn & Şuqmıt
0.2.		69	Agency Review and Meeting	21d 02-19-18		C00108424DB92 - 7 day	30d	1 1 1 1 1	Agency Review and Meeting	
0.2.		70	Update & Resubmit Exception(s)/Waiver(s)	5d 03-13-18	_	C00108424DB92 - 5 day	21d	1 1 1 1 1	Update & Resubmit Exception(s)/Waiver(s	
0.2.		71	Agency Review & Approval of Exception(s)/Waiver(s)	21d 03-19-18		C00108424DB92 - 7 day	30d	1 1 1 1 1	Agency Review & Approval of Exception	
	8424DB92.O.2.2 S			33d 01-09-18		C00108424DB92 - 5 day	44d	-4-4-4-4-4-4-	C00108424DB92.0.2.2 Supplemental Surve	
	108424DB92.O.2.2			33d 01-09-18		C00108424DB92 - 5 day	44d		T Notification and Survey Mobilization	surveys
		74	VDOT Notification and Survey Mobilization	3d 01-09-18		C00108424DB92 - 5 day	44d 44d	1 1 1 1 1	veying of Mobile Ground Controls	
		75	Surveying of Mobile Ground Controls	10d 01-12-18		C00108424DB92 - 5 day		1 1 1 1 1		
		76	Mobile Map Compilation	20d 01-26-18		C00108424DB92 - 5 day	44d	1 1 1 1 1	Mobile Map Compilation 000108424DB92.0.2.2.2 Field Surveys	
	108424DB92.O.2.2			31d 01-09-18		C00108424DB92 - 5 day	46d		T Notification and Survey Mobilization	}
		78	VDOT Notification and Survey Mobilization	4d 01-09-18		C00108424DB92 - 5 day	45d	1 1 1 1 1	erform Supplemental Field Surveys	
		79	Perform Supplemental Field Surveys	20d 01-16-18		C00108424DB92 - 5 day	45d	1 : : : :	take Geotechnical Boring Locations	
		80 81	Stake Geotechnical Boring Locations	5d 02-08-18	_	C00108424DB92 - 5 day	28d 46d		Prepare Updates to Survey Files	
			Prepare Updates to Survey Files	21d 01-23-18		C00108424DB92 - 5 day	711d			otechnical Engineering & Subsurface Investigations
0.2.		Seotechnica 83	Engineering & Subsurface Investigations Prepare and Submit Geotechnical Boring Location Plan	154d 01-10-18 11d 01-10-18		C00108424DB92 - 5 day	28d		pare and Submit Geotechnical Boring Local	
0.2.		84	VDOT Review Geotechnical Boring Location Plan	21d 01-10-18		C00108424DB92 - 7 day	40d		DOT Review Geotechnical Boring Location	
0.2.		85	Prepare Property Owner Notification Letters for Geotechnical Investigations	1d 01-18-18		C00108424DB92 - 7 day	33d	1::::::::::::::::::::::::::::::::::::::	pare Property Owner Notification Letters for	
0.2.		86	Secure Permits and Clear Utilities as Required	15d 01-15-18		C00108424DB92 - 5 day	28d		ecure Permits and Clear Utilities as Require	
0.2.		87	Field Investigations, Boring Logs and Lab Analysis for Scope Validation	30d 02-15-18		C00108424DB92 - 5 day	28d	1 1 1 1 1	Field Investigations, Boring Logs and Lab	
0.2.		88	Perform Geotechnical Field Investigations	30d 02-15-18	_	C00108424DB92 - 5 day	521d		Perform Gegtechnical Field Investigations	
0.2.		89	Boring Logs, Laboratory Testing & Analysis	40d 02-22-18		C00108424DB92 - 5 day	521d		Boring Logs, Laboratory Testing & Anal	
0.2.		90	Prepare/Submit Roadway & SWM Geotechnical Engineering Report Segment	19d 04-20-18		C00108424DB92 - 5 day	521d	T		eotechnical Engineering Report Segment
0.2.		91	Prepare/Submit Bridge Geotechnical Engineering Report B-686	19d 04-20-18		C00108424DB92 - 5 day	691d		Prepare/Submit Bridge Geotechnical	
0.2.		92	Prepare/Submit Noise Wall Geotechnical Engineering Report	19d 04-20-18	05-10-18	C00108424DB92 - 5 day	522d		Prepare/Submit Noise Wall Geotechni	
0.2.		93	VDOT Review/Approve Roadway & SWM Geotechnical Engineering Report	90d 05-16-18	08-14-18	C00108424DB92 - 7 day	750d			adway & \$WM Geotechnical Engineering Report
0.2.		94	VDOT Review/Approve Ridge Geotechnical Engineering Report B-686	90d 05-16-18		C00108424DB92 - 7 day	995d			ge Géotéchnical Engineering Réport B-686
0.2.		95	VDOT Review/Approve Bridge Geotechnical Engineering Report	90d 05-02-18	_	C00108424DB92 - 7 day	750d			e Walls Geotechnical Engineering Report;
C0010			sian	204d 01-08-18		000100424BB32 - 7 day	508d		C00108424DB92.Q.2	
C00			I Grade, Limits of Disturbance	107d 01-08-18			26d		C00108424DB92.O.2.4.1 Line and	
		98	Develop Roadway Model and Set Line & Grade, Typical Sections & X-Sections	56d 01-08-18		C00108424DB92 - 5 day	22d		Develop Roadway Model and Set Line & 0	
		99	Design QA/QC Roadway Model, Line & Grade, Typical Sections & X-Sections	5d 03-27-18		C00108424DB92 - 5 day	28d		Design QA/QC Roadway Model, Line & 0	
C		.00	Submit Roadway Model, Line & Grade, Typical Sections & X-Sections	1d 04-04-18		C00108424DB92 - 5 day	28d		1 Submit Roadway Model, Line & Grade, T	
		01	VDOT Review and Comment Roadway Model, Line & Grade, Typical Sections & X-Sectio	21d 04-04-18		C00108424DB92 - 7 day	40d			y Model, Line & Grade, Typical Sections & X-Sections
		02	Address Comments Develop Roadway Model, Line & Grade, Typical Sections & X-Section	9d 04-26-18		C00108424DB92 - 5 day	27d			ay Model, Line & Grade, Typical Sections & X-Sections
		03	Design QA/QC Roadway Model, Line & Grade, Typical Sections & X-Sections Plans	2d 05-09-18		C00108424DB92 - 5 day	27d			& Grade, Typical Sections & X-Sections Plans
		04	2nd Submittal Roadway Model, Line & Grade, Typical Sections & X-Sections	1d 05-11-18	05-11-18	C00108424DB92 - 5 day	27d		I 2nd Submittal Roadway Model, Line 8	& Grade, Typical Sections & X-Sections
C	0.2.4.1 4	05	VDOT Review / Approve Roadway Model, Line & Grade, Typical Sections & X-Sections	21d 05-11-18	06-01-18	C00108424DB92 - 7 day	40d		■ VDOT Review / Approve Roadway	Model, Line & Grade, Typical Sections & X-Sections
C	0.2.4.1 4	06	Roadway Model, Line & Grade, Typical Sections & X-Sections Approved	1d 06-06-18	06-06-18	C00108424DB92 - 5 day	25d		I Roadway Model, Line & Grade, Ty	pical Sections & X-Sections Approved
C00	108424DB92.O.2.4	1.2 Roadwa	y Plan Development	100d 06-04-18	10-19-18		508d		C00108424DB92.O.2	4.2 Roadway Plan Development
C	0.2.4.2 4	.08	Develop Roadway Plans 1st submittal	40d 06-04-18	07-30-18	C00108424DB92 - 5 day	490d		Develop Roadway Plans 1st	şubmittal
C	0.2.4.2 4	09	Develop Drainage/SWM, E&S Plans and Drainage/SWM Report 1st Submittal	40d 06-04-18	07-30-18	C00108424DB92 - 5 day	490d		Develop Drainage/SWM, E&S	S Plans and Drainage/SWM Report 1st Submittal
		10	Develop Sign., Marking, Lighting, Signal Design, ITS, MOT & TMP (Traffic) 1st Submittal	35d 06-11-18	07-30-18	C00108424DB92 - 5 day	490d		Develop Sign., Marking, Light	ting, Signal Design, ITS, MOT & TMP (Traffic) 1st Submittal
		11	Design QA/QC 1st Submittal	5d 07-31-18		C00108424DB92 - 5 day	490d		Design QA/QC 1st \$ubmittal	
		12	Submit Roadway/Drainage/SWM/E&S/Traffic/MOT Plans & TMP 1st Submittal	1d 08-07-18		C00108424DB92 - 5 day	492d		Submit Roadway/Drainage/S	WM/E&S/Traffic/MOT Plans & TMP 1st Submittal
_		13	VDOT/FHWA Review and Comment/Approval 1st Submittal	21d 08-07-18		C00108424DB92 - 7 day	708d		□ VDOT/FHWAReview and	Comment/Approval 1st Submittal
		14	Address Comments and Develop Final Roadway Plans	15d 08-29-18		C00108424DB92 - 5 day	492d		Address Comments and	Develop Final Roadway Plans
		15	Address Comments and Develop Final Drainage/SWM, E&S Plans	15d 08-29-18		C00108424DB92 - 5 day	492d			Develop Final Drainage/SWM, E&S Plans
_		16	Address Comments and Develop Traffic, TMP and Final MOT Plans	15d 08-29-18		C00108424DB92 - 5 day	492d			Develop Traffic, TMP and Final MOT Plans
			Design QA/QC Final Submittal	5d 09-20-18		C00108424DB92 - 5 day	492d		Design QA/QC Final Su	
	0.2.4.2 4	17	Design QAQOT ina oubmitta	00 00 20 .0						

)8424DB92			I-66 Eastbound V	Widening Insi	de the Beltway Technical	Proposal	09-25-
n	Activity ID	Activity Name	Original Start	Finish	Calendar	Total Float OLA	 2018 2019 2020 2021 NDJFMAMJJASONDJFMAMJJASONDJFMAMJJA
0.2.4.2	418	Submit Final Roadway/Drainage/SWM/E&S/Traffic/MOT Plans & TMP for Approval	1d 09-27-18	09-27-18	C00108424DB92 - 5 day	492d	t Submit Final Roadway/Drainage/SWM/E&S/Traffic/MOT Plans & TMP for Approval
0.2.4.2	419	VDOT/FHWA Review and Comment/Approval Final Submittal	21d 09-27-18		C00108424DB92 - 7 day	707d	□ VDOT/FHWA Review and Comment/Approval Final Submittal
0.2.4.2	420	Released For Construction (RFC) Plans	1d 10-19-18	_	C00108424DB92 - 5 day	494d	I Released For Construction (RFC) Plans
C00108424DB92.0	D.2.5 Bridge Desi	ign	200d 04-04-18	01-09-19		669d	▼ C00108424DB92 O.2.5 Bridge Design
C00108424DB9	2.O.2.5.1 Bridge	B-686 Widening	200d 04-04-18	01-09-19		669d	▼ C00108424DB92.O;2.5.1 Bridge B-686 Wildehing
O.2.5.1	423	Prepare B-686 Reports/Const Stages/TS&L (Stage I) Submission	14d 04-04-18	04-23-18	C00108424DB92 - 5 day	501d	Prepare B-686 Reports/Const Stages/TS&L (Stage I) Submission
O.2.5.1	424	Submit B-686 Stage I Submission	1d 04-24-18	_	C00108424DB92 - 5 day	501d	II Submit B-686 Stage I Submission
0.2.5.1	425	VDOT/FHWA Review, Comment & Approve B-686 Stage I Submission	21d 04-24-18		C00108424DB92 - 7 day	721d	□ VDOT/FHWA Review, Comment & Approve B-686 Stage I Submission
O.2.5.1	426	Address Comments and Prepare B-686 Final Plans (Stage II) Submission	81d 05-16-18		C00108424DB92 - 5 day	501d	Address Comments and Prepare B-686 Final Plans (Stage II) Submission
0.2.5.1	427	Develop Demo&Erection Plans	3d 09-11-18	_	C00108424DB92 - 5 day	520d	I Develop Demb&Erection Plans
0.2.5.1	428	Load Rating Analysis for Partial Demolition	4d 09-05-18		C00108424DB92 - 5 day	501d	I Load Rating Analysis for Partial Demolition
0.2.5.1	429	Design QA/QC B-686 Stage II Submission	3d 09-11-18		C00108424DB92 - 5 day	501d	I Design QA/QC B-686 Stage II Submission
0.2.5.1	430	Submit B-686 Stage II Submission	1d 09-14-18	_	C00108424DB92 - 5 day	501d	I Submit B-686;Stage II Submission ☐ VDOT/FHWA Review/Approval B-686 Stage II Submission
0.2.5.1	431	VDOT/FHWA Review/Approval B-686 Stage II Submission	21d 09-14-18		C00108424DB92 - 7 day	720d	
0.2.5.1	432	Final Revisions, Released for Construction(RFC) Plans	4d 10-08-18		C00108424DB92 - 5 day	500d	Final Revisions, Released for Construction(RFC) Plans
0.2.5.1	433	Bridge Construction Unit Cost Report (w/in 90 Days of RFC)	90d 10-11-18		C00108424DB92 - 7 day	937d 505d	Bituge Construction on the Cost Report (Will 90 Days of RPC)
O.2.6	466	/all Design Sta 28+50 to 30+50 Prepare RW Preliminary Submission	57d 08-07-18 4d 08-07-18		C00109424DD02 5 dov	496d	Prepare RW Preliminary Submission
O.2.6	467	Submit RW Preliminary Submission	1d 08-13-18		C00108424DB92 - 5 day C00108424DB92 - 5 day	496d 496d	I Submit RW Preliminary Submission
0.2.6	468	VDOT/FHWA Review, Comment & Approve RW Preliminary Submission	21d 08-13-18		C00108424DB92 - 7 day	714d	VDOT/FHWA Review, Comment & Approve RW Preliminary Submission
0.2.6	469	Address Comments and Prepare RW Final Plans (Stage II) Submission	10d 09-04-18		C00108424DB92 - 7 day	497d	☐ Address Comments and Prepare RW Final Plans (Stage II) Submission
O.2.6	470	Design QA/QC RW Stage II Submission	2d 09-18-18		C00108424DB92 - 5 day	497d	Design QA/QC RW Stage II Submission
0.2.6	471	Submit RW Stage II Submission	1d 09-27-18	_	C00108424DB92 - 5 day	492d	Submit RW Stage III Submission
0.2.6	472	VDOT/FHWA Review/Approval RW Stage II Submission	21d 09-27-18		C00108424DB92 - 7 day	707d	□ VDOT/FHWA Review/Approval RW Stage II Submission
0.2.6	473	Final Revisions, Released for Construction(RFC) RW Plans	4d 10-19-18		C00108424DB92 - 5 day	491d	Il: Final Revisions, Released for Construction(RFC) RW Plans
C00108424DB92.0	0.2.7 Landscape	Archittecture & Tree Preservation	57d 08-07-18			505d	C00108424DB92.Q.2.7 Landscape Architecture & Tree Preservation
0.2.7	435	Develop Preliminary Landscaping & Tree Preservation Design	10d 08-07-18	08-20-18	C00108424DB92 - 5 day	490d	□ Develop Preliminary Landscaping & Tree Preservation Design
O.2.7	436	QA/QC Preliminary Landscaping & Tree Preservation Design	2d 08-21-18	08-22-18	C00108424DB92 - 5 day	490d	I QA/QC Preliminary Landscaping & Tree Preservation Design
O.2.7	437	Submit Preliminary Landscaping & Tree Preservation Design to VDOT	1d 08-23-18	08-23-18	C00108424DB92 - 5 day	490d	I Submit Preliminary Landscaping & Tree Preservation Design to VDOT
0.2.7	438	VDOT Review, Comment and Approve Preliminary Landscaping & Tree Preservation Desi	21d 08-23-18	09-13-18	C00108424DB92 - 7 day	706d	UDOT Review, Comment and Approve Preliminary Landscaping & Tree Preservation Design
0.2.7	439	Address Comments and Develop Final Landscaping & Tree Preservation Design	10d 09-14-18	09-27-18	C00108424DB92 - 5 day	491d	📑 Address Comments and Develop Final Landscaping & Tree Preservation Design
O.2.7	440	Design QA/QC Final Landscaping & Tree Preservation Design	2d 09-28-18	10-01-18	C00108424DB92 - 5 day	491d	Design QA/QC Final Landscaping & Tree Preservation Design
O.2.7	441	Submit Final Landscaping Design & Tree Preservation to VDOT	1d 10-02-18	10-02-18	C00108424DB92 - 5 day	491d	1 Submit Final Landscaping Design & Tree Preservation to VDOT:
O.2.7	442	VDOT Review, Comment and Approve Final Landscaping & Tree Preservation Design	21d 10-02-18	10-23-18	C00108424DB92 - 7 day	707d	D VDOT Review, Comment and Approve Final Landscaping & Tree Preservation Design
O.2.7	443	Released for Construction Landscaping & Tree Preservation Design	1d 10-24-18	10-24-18	C00108424DB92 - 5 day	491d	Released for Construction Landscaping & Tree Preservation Design
_C00108424DB92.O.3	Environmental		172d 01-22-18	09-19-18		530d	▼ C00108424DB92.O.3 Environmental
C00108424DB92.0			2d 01-22-18	_	C00108424DB92 - 5 day	665d	▼ C00108424DB92.Q.3.1 Hazardous Materials
O.3.1	446	Perform Asbestos Inspection On Structure B-686	2d 01-22-18		C00108424DB92 - 5 day	665d	Perform Asbestos Inspection On Structure B-686
		& Endangered Species	2d 03-27-18		C00108424DB92 - 5 day	619d	▼ C00108424DB92.O.3.2 Threatened & Endangered Species
	2.O.3.2.1 Bat Sp		2d 03-27-18		C00108424DB92 - 5 day	619d	C00108424DB92.O.3.2.1 Bat Species Inventory
0.3.2.1	449	T&E Bat Inventory - Bridge B-686	1d 03-27-18		C00108424DB92 - 5 day	619d	I, T&E Bat Inventory Bridge B-686
0.3.2.1	450	Submit Bat Inventory Form to VDOT	1d 03-28-18		C00108424DB92 - 5 day	619d	I Submit Bat Inventory Form to VDOT
	0.3.3 Environmer	_	126d 03-27-18		C00400404DD00 5 1	530d	C00108424DB92.O.3:3 Environmental Permits
		nmental Permit applications	109d 03-27-18		C00108424DB92 - 5 day	515d	C001084240B92.O.3.3.1 Environmental Permit applications
0.3.3.1	453	Develop and Submit Joint Permit Application	40d 03-27-18		C00108424DB92 - 5 day	522d	Develop and Submit Joint Permit Application Develop and Submit VPDES Stormwater General Permit Application & SWPPP
0.3.3.1	454	Develop and Submit VPDES Stormwater General Permit Application & SWPPP	10d 03-27-18		C00108424DB92 - 5 day	593d	
O.3.3.1	455	Request EQ-200 NEPA Re-eval.& EQ-103 NEPA Certification/Commitments for Construct	1d 08-29-18		C00108424DB92 - 5 day	515d	Request EQ-200 NEPA Re-eval & EQ-103 NEPA Certification/Commitments for Construction C00108424DB92.Q.3;3.2 Issuance & Approval of Environmental Permits
		ce & Approval of Environmental Permits	162d 04-10-18		C00108424DB92 - 7 day	742d	Agency Reviews and Issuance of Section 404 Permit, WPP, SBP, TWP - Hold Point
0.3.3.2	457	Agency Reviews and Issuance of Section 404 Permit, WPP, SBP, TWP - Hold Point	90d 05-22-18		C00108424DB92 - 7 day	751d	Agency Reviews and Issuance of VPDES Stormwater General Permit & SWPPP - Hold Point
O.3.3.2 O.3.3.2	458 459	Agency Reviews and Issuance of VPDES Stormwater General Permit & SWPPP - Hold P VDOT Rvw. & Approve EQ-200 NEPA Re-eval. & EQ-103 NEPA Certify/Comments for Cor	30d 04-10-18 21d 08-29-18		C00108424DB92 - 7 day C00108424DB92 - 7 day	853d	Agency Reviews and issuance of MPDES Stormwater General Permit & SWMPP - Hold Point DVDQT Rvw. & Approve EQ-200 NEPA Re-eval & EQ-103 NEPA Certify/Comments for Const.

VDOT Review/Approval Noise Wall Design

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C00108424DB92.O.4 Public Involvement

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802d 06-07-18 08-03-21 C00108424DB92 - 5 day

C00108424DB92 - 7 day

742d

21d 08-08-18 08-29-18

Wagman Heavy Civil, Inc.

☐ VDOT Review/Approval Noise Wall Design

1	Activity ID	Activity Name	Original Start Duration	Finish	Calendar	Total Float Ol NI D. IJ ELMI	2018 2019 2020	
0.4	474	Pardon Our Dust and Other Stakeholders Meeting	802d 06-07-18	08-03-21	C00108424DB92 - 5 day	Od ON DISTRICT	AMJJASONDJEMAMJJASONDJEMAMJJA	
C00108424DB92.O		<u> </u>	149d 05-15-18	10-11-18	C00100424DB92 - 3 day	887d	C00108424DB92.O.5 Construction Submittals	
O.5	559	Girder Shop Drawings B-686	21d 05-15-18	06-05-18	C00082135DB77 - 7 Day	919d	Girder Shop Drawings B-686	
0.5	560	SOE Design B-686	21d 05-15-18	06-05-18	C00082135DB77 - 7 Day	860d	SOE Design B-686	
0.5	561	Demolition Plan B-686	7d 09-13-18	09-20-18	C00082135DB77 - 7 Day	805d	Demolition Plan B-686	
O.5	562	Erection Plan B-686		09-20-18			Erection Plan B-686	. - - - - - - - -
O.5	563	Deck Forming Submittal B-686	7d 09-13-18 21d 06-05-18	06-26-18	C00082135DB77 - 7 Day C00082135DB77 - 7 Day	902d 994d	Deck Forming \$ubmittal B-686	
0.5	564	Shop Drawing Ramp A RW	14d 09-27-18	10-11-18	C00082135DB77 - 7 Day	755d	Shop:Drawing Ramp A;RW	
O.5	565		14d 09-27-18	09-12-18			Shop Drawing Noise Barrier Ramp A	
C00108424DB92.O		Shop Drawing Noise Barrier Ramp A		01-09-19	C00082135DB77 - 7 Day	757d	C00108424DB92.O.6 Acquisitions	
	<u>`</u>	February and Deliver Circles D 696	218d 06-05-18		-	791d	Fabricate and Deliver Girder B-686	
0.6	566	Fabricate and Deliver Girder B-686	90d 06-05-18	09-03-18	C00082135DB77 - 7 Day	919d		
0.6	567	Fabricate and Deliver Ramp A RW	90d 10-11-18	01-09-19	C00082135DB77 - 7 Day	755d	Fabricate and Deliver Ramp'A RW Fabricate and Deliver Noise Barrier Ramp A	
0.6	568	Fabricate and Deliver Noise Barrier Ramp A	90d 09-12-18	12-11-18	C00082135DB77 - 7 Day	757d	Faoricate and Deliver Noise Barrier Ramp A	<u> </u>
00108424DB92.C C		Direchlist	865d 05-10-18	09-02-21	0000004050077 7.0	04		
C00109424DB02 C	519	Punchlist	30d 08-03-21	09-02-21	C001082135DB77 - 7 Day	0d		C00108424DR02 C11 C0
	<u></u>	gineering Design Services	619d 06-06-18	11-10-20	C00108424DB92 - 5 day	Od Od		C00108424DB92.C.1 Co
C.1	569	Utility Coordination During Construction	619d 06-06-18	11-10-20	C00108424DB92 - 5 day	Od Od		Utility Coordination During
C.1	570	Respond to Request for Information and Submittal Review	619d 06-06-18	11-10-20	C00108424DB92 - 5 day	0d		Respond to Request for I
C.1	571	Construction Engineering Design and Field Coordination	619d 06-06-18	11-10-20	C00108424DB92 - 5 day	0d		Construction Engineering
C00108424DB92.C.			825d 06-06-18	09-02-21	C00108424DB92 - 5 day	Od		
C.2	572	Project Quality Control	825d 06-06-18		C00108424DB92 - 5 day	0d		
C00108424DB92.C.			20d 06-06-18	07-03-18	C00108424DB92 - 5 day	159d	▼▼ C00108424DB92.C.3 Mobilization	
C.3	573	Mobilization Start	10d 06-06-18	06-19-18	C00108424DB92 - 5 day	19d	☐ Mobilization Start	
C.3	574	Mobilization Complete	10d 06-20-18	07-03-18	C00108424DB92 - 5 day	159d	☐ Mobilization Complete	
C00108424DB92.C.			372d 05-10-18			291d	▼	lent 1 Sta 120+00 to 172+00
C.4	575	Relocate VDOT Comm and Power (Segment 1)	30d 05-10-18		C00108424DB92 - 5 day	40d	Relocate VDOT Comm and Power (Segment 1)	
C00108424DB92	2.C.4.1 Segment 1A		97d 06-18-18	10-30-18		79d	C00108424DB92.C.4.1 Segment 1A	
C.4.1	576	Install Phase 1A MOT & Portion of Phase 2A MOT (Segment 1A)	2d 06-18-18	06-19-18	C00108424DB92 - 5 day	19d	I Install Phase 1AMOT & Portion of Phase 2AMOT (Segment 1A)	
C.4.1	577	Toll Gantry #2 Shift 1 (Segment 1A)	1d 06-20-18	06-20-18	C00108424DB92 - 5 day	45d	I Toll Gantry #2 Shift 1 (Segment 1A)	
C.4.1	578	Demo Existing Guardrail & Barrier (Segment 1A)	4d 06-21-18	06-26-18	C00108424DB92 - 5 day	45d	Demo Existing Guardrail & Barrier (Segment 1A)	
C.4.1	579	Clear and Grub (Segment 1A)	2d 06-27-18	06-28-18	C00108424DB92 - 5 day	45d	(Clear and Grub (Segment 1A)	
C.4.1	580	Limitied Earthwork for Drainage Repairs (Segment 1A)	2d 06-29-18	07-02-18	C00108424DB92 - 5 day	45d	Limitied Earthwork for Drainage Repairs (Segment 1A)	
C.4.1	581	Repair Crossing Sta 134 (Segment 1A)	8d 07-03-18	07-13-18	C00108424DB92 - 5 day	45d	Repair Crossing Sta 134 (Segment 1A)	
C.4.1	582	Repair Crossing Sta 139 (Segment 1A)	8d 07-03-18	07-13-18	C00108424DB92 - 5 day	45d	Repair Crossing Sta 139 (Segment 1A)	
C.4.1	583	Repair Crossing Sta 143+50 (Segment 1A)	8d 07-03-18	07-13-18	C00108424DB92 - 5 day	45d	Repair Crossing Sta 143+50 (Segment 1A)	
C.4.1	584	Repair Crossing Sta 147 (Segment 1A)	8d 07-03-18		C00108424DB92 - 5 day	45d	Repair Crossing Sta 147 (Segment 1A)	
C.4.1	585	Repair Crossing Sta 150 (Segment 1A)	8d 07-03-18	07-13-18	C00108424DB92 - 5 day	45d	Repair Crossing Sta 150 (Segment 1A)	
C.4.1	586	Replace Crossing Sta 152+50 (Segment 1A)	8d 07-03-18	07-13-18	C00108424DB92 - 5 day	45d	Replace Crossing Sta 152+50 (Segment 1A)	
C.4.1	587	Replace Crossing Sta 156 (Segment 1A)	8d 07-03-18	07-13-18	C00108424DB92 - 5 day	45d	Replace Crossing Sta 156 (Segment 1A)	
C.4.1	588	Repair Crossing Sta 158 Under B-675 (Segment 1A)	8d 07-03-18	07-13-18	C00108424DB92 - 5 day	45d	☐ Repair Crossing Sta 158 Under B-675 (Segment 1A)	
C.4.1	589	Repair Crossing Sta 162 (Segment 1A)	8d 07-03-18	07-13-18	C00108424DB92 - 5 day	45d	☐ Repair Crossing Sta 162 (Segment 1A)	
C.4.1	590	Repair Crossing Sta 163 (Segment 1A)	8d 07-03-18	07-13-18	C00108424DB92 - 5 day	45d	☐ Repair Crossing Sta 163 (Segment 1A)	
C.4.1	591	Repair Crossing Sta 167+50 (Segment 1A)	8d 07-03-18	07-13-18	C00108424DB92 - 5 day	45d	☐ Repair Crossing Sta 167+50 (Segment 1A)	
C.4.1	592	Replace Crossing Sta 4 Ramp 3-1 (Segment 1A)	8d 07-03-18	07-13-18	C00108424DB92 - 5 day	45d	☐ Replace Crossing Sta 4 Ramp 3-1 (Segment 1A)	
C.4.1	593	Repair Crossing Sta 170 Under B-677 (Segment 1A)	8d 07-03-18	07-13-18	C00108424DB92 - 5 day	45d	Repair Crossing Sta 170 Under B-677 (Segment 1A)	
C.4.1	594	Install Remaining Drainage (Segment 1A)	10d 07-16-18	07-27-18	C00108424DB92 - 5 day	45d	🖫 Install Remaining Drainage (Segment 1A)	
C.4.1	595	Install RW-2 (Segment 1A)	10d 07-30-18	08-10-18	C00108424DB92 - 5 day	45d	□ Install RW-2 (Segment 1A)	
C.4.1	596	Demo Existing Sholder (Segment 1A)	5d 08-13-18	08-17-18	C00108424DB92 - 5 day	45d	Demo Existing Sholder (Segment 1A)	
C.4.1	597	Earthwork (Segment 1A)	8d 08-20-18	08-29-18	C00108424DB92 - 5 day	45d	🖟 Earthwork (\$egment 1A)	
C.4.1	598	Install Underdrain (Segment 1A)	5d 08-30-18	09-06-18	C00108424DB92 - 5 day	45d	Install Underdrain (Segment 1A)	
C.4.1	599	Install MB-7F (Segment 1A)	8d 09-07-18	09-18-18	C00108424DB92 - 5 day	45d	. Install MB-7F (Segment 1A)	
C.4.1	600	Install Soil Cement (Segment 1A)	6d 09-19-18	09-26-18	C00108424DB92 -	45d	Install Soil Cement (Segment 1A)	
C.4.1	601	Install CTA (Segment 1A)	6d 09-27-18	10-04-18	C00108424DB92 -	45d	Install, CTA (Segment 1A)	
C.4.1	602	Install Asphalt to IM layer (Segment 1A)	5d 10-05-18	10-11-18	C00108424DB92 - Paving	44d	□ Install Asphalt to IM layer (Segment 1A)	
C.4.1	603	Complete Ditches (Segment 1A)	3d 10-12-18		C00108424DB92 - 5 day	76d	Complete Ditches (Segment 1A)	
	1.111							<u> </u>

108424DB92			I-66 Eastbound W	/idening Insi	de the Beltway Technical F	Proposal	09-25-17
ıth	Activity ID	Activity Name	Original Start Duration	Finish	Calendar	Total Float OLA	
C.4.1	604	Install Water Quality Swale (Segment 1A)	3d 10-17-18	10-19-18	C00108424DB92 - 5 day	76d	I Install Water Quality Swale (Segment 1A)
C.4.1	605	Install Permant Signage (Segment 1A)	2d 10-22-18	10-19-18	C00108424DB92 - 5 day	76d	I Install Permant Signage (Segment 1/A)
C.4.1	606	Install OH Sign Foundations (Segment 1A)	10d 09-19-18	10-23-10	C00108424DB92 - 5 day	91d	Install OH Sign Foundations (Segment 1A)
C.4.1	607	Install Guardrail (Segment 1A)	5d 10-24-18	10-30-18	C00108424DB92 - 5 day	76d	I Install Guardrall (\$egment 1A)
C00108424DB92	2.C.4.2 Segment 1B	, ,		05-22-19	0001001213332 0 444	384d	C00108424DB92.C.4.2 Segment 1B
C.4.2	608	Clear and Grub for Noise Barriers (Segment 1B)	10d 06-06-18	06-19-18	C00108424DB92 - 5 day	119d	☐ Clear and Grub for Noise Barriers (Segment 1B)
C.4.2	609	Remove Noise Barrier C1 to Sta 154+50 (Segment 1B)	10d 08-24-18	09-07-18	C00108424DB92 - 5 day	73d	Remove Noise Barrier C1 to Sta 154+50 (Segment 1B)
C.4.2	610	Install Foundations for Noise Barrier C1 to station 154+50 (Segment 1B)	30d 09-10-18	10-19-18	C00108424DB92 - 5 day	73d	Install Foundations for Noise Barrier C1 to station 154+50 (Segment 1B)
C.4.2	611	Install Noise Barrier Panels for Noise Barrier C1 to Station 154+50 (Segment 1B)	30d 10-22-18	12-03-18	C00108424DB92 - 5 day	73d	Install Noise Barrier Panels for Noise Barrier C1 to Station 154+50 (Segment 1B)
C.4.2	612	Install Remaining Phase 1B MOT & Portion of Phase 2B MOT (Segment 1B)	3d 10-31-18	11-02-18	C00108424DB92 - 5 day	76d	Install Remaining Phase 1B MOT & Portion of Phase 2B MOT (Segment 1B)
C.4.2	613	Install RW-1 (Segment 1B)	15d 11-05-18	11-26-18	C00108424DB92 - 5 day	76d	. Install RW-1;(Segment 1B)
C.4.2	614	Install Remaining Drainage (Segment 1B)	4d 11-30-18	12-05-18	C00108424DB92 - 5 day	76d	Install Rémáining Dráinage (Segmént 1B)
C.4.2	615	Demo Existing Pavement (Segment 1B)	4d 12-06-18	12-11-18	C00108424DB92 - 5 day	76d	Demo Existing Pavement (Segment 1B)
C.4.2	616	Earthwork (Segment 1B)	4d 12-12-18	12-17-18	C00108424DB92 - 5 day	76d	□ Earthwork (Segment 1B)
C.4.2	617	Install Underdrain (Segment 1B)	3d 12-18-18	12-20-18	C00108424DB92 - 5 day	76d	I Install Underdrain (Segment 1B)
C.4.2	618	Install MB-7F (Segment 1B)	7d 12-18-18	12-27-18	C00108424DB92 - 5 day	76d	II; Install MB-7F (\$egment 1B)
C.4.2	619	Install Rough Electrical (Segment 1B)	4d 12-21-18	12-27-18	C00108424DB92 - 5 day	76d	Install Rough Electrical (Segment 1B)
C.4.2	620	Install Soil Cement (Segment 1B)	6d 12-28-18	03-06-19	C00108424DB92 -	34d	Install Sqil Cement (Segment;1B)
C.4.2	621	Install CTA (Segment 1B)	6d 03-07-19	03-14-19	C00108424DB92 -	34d	☐ Install CTA (Segment 1B)
C.4.2	622	Install Asphalt to IM Layer (Segment 1B)	5d 03-18-19	03-22-19	C00108424DB92 - Paving	33d	I Iristall Asphalt to IM Layer (Segment:1B)
C.4.2	623	Remove Remainder of Noise Barrier C1 (Segment 1B)	20d 12-04-18	01-02-19	C00108424DB92 - 5 day	73d	Remove Remainder of Noise Barrier C1 (Segment 1B)
C.4.2	624	Install Foundations for Remainder of Noise Barrier C1 (Segment 1B)	25d 01-03-19	02-06-19	C00108424DB92 - 5 day	73d	Install Foundations for Remainder of Noise Barrier C1 (Segment 1B)
C.4.2	625	Install Noise Barrier Panels for Remainder of Noise Barrier C1 (Segment 1B)	20d 02-07-19	03-06-19	C00108424DB92 - 5 day	73d	Install Noise Barrier Panels for Remainder of Noise Barrier C1 (Segment 1B)
C.4.2	626	Complete Ditches (Segment 1B)	4d 03-25-19	03-28-19	C00108424DB92 - 5 day	33d	Complete Difches (Segment 1B)
C.4.2	627	Install Water Quality Swale (Segment 1B)	4d 03-29-19	04-03-19	C00108424DB92 - 5 day	33d	Install Water Quality Swale (Segment 1B)
C.4.2	628	Install Permant Signage (Segment 1B)	4d 04-04-19	04-09-19	C00108424DB92 - 5 day	33d	II Install Permant Signage (Segment 1B)
C.4.2	629	Complete OH Sign Foundations (Segment 1B)	10d 04-10-19	04-24-19	C00108424DB92 - 5 day	33d	Complete OH Sign Foundations (Segment 1B)
C.4.2	630	Complete Electrical (Segment 1B)	6d 04-25-19	05-02-19	C00108424DB92 - 5 day	33d	Complete Electrical (Segment 1B)
C.4.2	631	Install Guardrail (Segment 1B)	4d 05-03-19	05-08-19	C00108424DB92 - 5 day	33d] Însțall Guardrail (Segment 1B)
C.4.2	632	Complete BMP3-2 (Segment 1B)	10d 05-09-19	05-22-19	C00108424DB92 - 5 day	374d	Complete BMP3-2 (Segment 1B)
C00108424DB92	2.C.4.3 B675		267d 06-18-18	06-25-19		284d	V Q00108424QB92.¢.4;3 B675
C.4.3	633	Saw Cut and Demo Existing Approach Slab Abt A (B675)	1d 07-09-18	07-09-18	C00108424DB92 - 5 day	17d	I Saw Cut and Demo Existing Approach Slab Abt A (B675)
C.4.3	634	Install SOE Abt A (B675)	4d 06-20-18	06-25-18	C00108424DB92 - 5 day	26d	II. Install SOE Abt A (B675);
C.4.3	635	Demo Existing Abutment Abt A (B675)	2d 07-10-18	07-11-18	C00108424DB92 - 5 day	17d	I Demo Existing Abutment Abt A (B675)
C.4.3	636	Install New Foundation Abt A (B675)	8d 07-30-18	08-08-18	C00108424DB92 - 5 day	5d	□ Install New Foundation Abt A(B675)
C.4.3	637	Form, Pour, Strip & Cure New Pile Cap Abt A (B675)	5d 08-09-18	08-15-18	C00108424DB92 - 5 day	5d	🛽 Form, Pour, Strip & Cure New Pile Cap Abt A (B675)
C.4.3	638	Form, Pour, Strip & Cure New Abutment Stem Abt A (B675)	5d 08-16-18	08-22-18	C00108424DB92 - 5 day	5d	Form, Pour, \$trip & Cure New Abutment Stem Abt A (B675)
C.4.3	639	Form, Pour, Strip & Cure Beam Seat Abt A (B675)	5d 08-23-18	08-29-18	C00108424DB92 - 5 day	5d	D Form, Pour, Strip & Cure Beam Seat Abt A (B675)
C.4.3	640	Saw Cut and Demo Existing Approach Slab Abt B (B675)	1d 07-10-18	07-10-18	C00108424DB92 - 5 day	17d	I Saw Cut and Demo Existing Approach Slab Abt B (B675)
C.4.3	641	Install SOE Abt B (B675)	4d 06-20-18	06-25-18	C00108424DB92 - 5 day	27d	I Install SOE Abt B (B675)
C.4.3	642	Demo Existing Abutment Abt B (B675)	2d 07-11-18	07-12-18	C00108424DB92 - 5 day	17d	I Demo Existing Abutment Abt; B (B675)
C.4.3	643	Install New Foundation Abt B (B675)	8d 07-30-18	08-08-18	C00108424DB92 - 5 day	6d	□ Install New Foundation Abt B (B67\$)
C.4.3	644	Form, Pour, Strip & Cure New Pile Cap Abt B (B675)	5d 08-09-18	08-15-18	C00108424DB92 - 5 day	6d	In Form, Pour, Strip & Cure New Pile Cap Abt B (B675)
C.4.3	645	Form, Pour, Strip & Cure New Abutment Stem Abt B (B675)	5d 08-16-18	08-22-18	C00108424DB92 - 5 day	6d	🗓 Form, Pour, Ştrip & Cure New Abutment Stem Abt B (B675)
C.4.3	646	Form, Pour, Strip & Cure Beam Seat Abt B (B675)	5d 08-23-18	08-29-18	C00108424DB92 - 5 day	6d	I Form, Pour, Strip & Cure Beam Seat Abt B (B675)
C.4.3	647	Install MOT Willaimsburg Blvd (B675)	2d 06-18-18	06-19-18	C00108424DB92 - 5 day	19d	I I Install MO↑ Willaimsburg Blyd (B675)
C.4.3	648	Install SOE Pier 1 (B675)	4d 06-20-18	06-25-18	C00108424DB92 - 5 day	22d	II Install \$OE Pier 1 (B675)
C.4.3	649	Excavate for Pier 1 (B675)	1d 06-26-18	06-26-18	C00108424DB92 - 5 day	22d	[Excavate for Pier 1 (B675)
C.4.3	650	Install Pier 1 Foundation (B675)	8d 07-30-18	08-08-18	C00108424DB92 - 5 day	0d	■ Install Pier 1 Foundation (B675)
C.4.3	651	Form, Pour, Strip & Cure Pier 1 Pile Cap (B675)	5d 08-09-18	08-15-18	C00108424DB92 - 5 day	0d	Form, Pour, Strip & Cure Pier 1 Pile Cap (B675)
C.4.3	652	Form, Pour, Strip & Cure Pier 1 Stem (B675)	5d 08-16-18	08-22-18	C00108424DB92 - Bridge	0d	■ Form, Pour, Ştrip & Cure Pier 1 Stem (8675)

Remaining Level of Effort Critical Remaining ... Actual Work Actual Level of Effort Remaining Work ◆ Milestone

Install SOE Pier 2 (B675)

Excavate for Pier 2 (B675)

Form, Pour, Strip & Cure Pier 1 Cap (B675)

Form, Pour, Strip & Cure Pier 1 Beam Seat (B675)

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C00108424DB92 - Bridge

C00108424DB92 - Bridge

C00108424DB92 - 5 day

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Install SOE Pier 2 (B675)

Excavate for Pier 2 (B675)

Form, Pour, Strip & Cure Pier 1 Cap (B675)

Form, Pour, Strip & Cure Pier, 1 Beam Seat (B675)

5d 08-23-18 08-29-18

5d 08-30-18 09-06-18

8d 06-20-18 06-29-18

1d 07-02-18 07-02-18

I CC Coothound	Midanina Incid	a tha Daltinair'	Technical Proposal
1-00 Fasibound	vvidenina insia	e me bellwav	reconical Proposal

WBS Path Activity ID Activity Name Original Finish Duration N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D Install Pier 2 Foundation (B675) C00108424DB92 - 5 day C.4.3 8d 07-30-18 08-08-18 Form, Pour, Strip & Cure Pier 2 Pile Cap (B675) C.4.3 658 Form, Pour, Strip & Cure Pier 2 Pile Cap (B675) 5d 08-09-18 08-15-18 C00108424DB92 - 5 day Form, Pour, Strip & Cure Pier 2 Stem (B675): C.4.3 659 Form, Pour, Strip & Cure Pier 2 Stem (B675) 5d 08-16-18 08-22-18 C00108424DB92 - Bridge C.4.3 660 Form, Pour, Strip & Cure Pier 2 Cap (B675) 5d 08-23-18 C00108424DB92 - Bridge Form, Pour, Strip & Gure Pier 2 Cap (B675) 08-29-18 Form, Pour, Strip & Cure Pier 2 Beam Seat (B675) C.4.3 661 Form, Pour, Strip & Cure Pier 2 Beam Seat (B675) C00108424DB92 - Bridge 5d 08-30-18 09-06-18 Perform Existing Bridge Repairs (B675) C 4 3 662 Perform Existing Bridge Repairs (B675) C00108424DB92 - Bridge 25d 02-18-19 03-22-19 65d Demo SOE Abt A & Pier 1 (B675) C 4 3 663 Demo SOE Abt A & Pier 1 (B675) C00108424DB92 - 5 day 1d 09-07-18 09-07-18 Demo SOE Abt B & Pier 2 (B675) 664 Demo SOE Abt B & Pier 2 (B675) C.4.3 1d 09-10-18 09-10-18 C00108424DB92 - 5 day I Saw Cut Deck (B675) C.4.3 665 Saw Cut Deck (B675) 1d 09-11-18 09-11-18 C00108424DB92 - 5 day Demo Deck and Parapet (B675) C.4.3 666 Demo Deck and Parapet (B675) 2d 09-12-18 09-13-18 C00108424DB92 - 5 day ■ Erect Girder Line (B675) C.4.3 667 Erect Girder Line (B675) 4d 09-14-18 09-19-18 C00108424DB92 - 5 day 668 Install Deck Forms (B675) C00108424DB92 - 5 day Install Deck Forms (B675) C.4.3 5d 09-20-18 09-26-18 C.4.3 669 Install Overhangs (B675) 5d 09-27-18 10-03-18 C00108424DB92 - 5 day Install Overhangs (B675) C.4.3 670 Form, Pour, Strip & Cure Backwall Abt A Abutment (B675) 5d 10-04-18 10-10-18 C00108424DB92 - Bridge Form, Pour, Strip & Cure Backwall Abt A Abutment (B675) C 4 3 671 Form, Pour, Strip & Cure Backwall Abt B Abutment (B675) 5d 10-11-18 10-17-18 C00108424DB92 - Bridge Form, Pour, Strip & Cure Backwall Abt B Abutment (B675) Install Deck Rebar (B675) C.4.3 672 Install Deck Rebar (B675) 6d 10-18-18 10-25-18 C00108424DB92 - 5 day Reconstruct Bridge Joint Abt A (B675) C.4.3 673 Reconstruct Bridge Joint Abt A (B675) C00108424DB92 - Bridge 5d 10-26-18 11-01-18 Reconstruct Bridge Joint Abt B (B675) C.4.3 674 Reconstruct Bridge Joint Abt B (B675) 5d 11-02-18 11-08-18 C00108424DB92 - Bridge C.4.3 675 Demo for Joint Closure Pier 1 (B675) Demo for Joint Closure Pier 1 (B675) 3d 11-09-18 11-13-18 C00108424DB92 - 5 day C.4.3 676 5d 11-14-18 C00108424DB92 - Bridge Joint Closure Pour Pier 1 (B675) Joint Closure Pour Pier 1 (B675) 0d 11-20-18 Demo for Joint Closure Pier 2 (B675) C.4.3 677 Demo for Joint Closure Pier 2 (B675) 3d 11-21-18 11-26-18 C00108424DB92 - 5 day Joint Closure Pour Pier 2 (B675) C.4.3 678 Joint Closure Pour Pier 2 (B675) 5d 11-27-18 12-04-18 C00108424DB92 - Bridge 0d Pour Deck (B675) C.4.3 679 Pour Deck (B675) 5d 12-05-18 12-11-18 C00108424DB92 - Bridge Deck Curing (B675) C.4.3 680 Deck Curing (B675) 3d 12-12-18 12-14-18 C00108424DB92 - Bridge Form, Pour, Strip & Cure Approach Slab Abt Abutment (B675) C.4.3 681 Form, Pour, Strip & Cure Approach Slab Abt AAbutment (B675) 6d 02-18-19 02-25-19 C00108424DB92 - Bridge C.4.3 682 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B675) 6d 02-26-19 C00108424DB92 - Bridge Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B675) 03-05-19 C.4.3 Form, Pour, Strip & Cure Parapet (B675) 683 Form, Pour, Strip & Cure Parapet (B675) 10d 03-06-19 03-19-19 C00108424DB92 - Bridge C.4.3 684 Strip Overhangs (B675) 7d 03-20-19 03-28-19 C00108424DB92 - 5 day Strip Overhangs (B675) C.4.3 685 Groove Widened Deck (B675) 3d 03-29-19 04-02-19 C00108424DB92 - 5 day Extend Slope Protection Abt A (B675) C.4.3 686 Extend Slope Protection Abt A (B675) 4d 04-03-19 04-08-19 C00108424DB92 - 5 day 318d I Extend Slope Protection Abt B (B675) C.4.3 687 318d Extend Slope Protection Abt B (B675) 4d 04-09-19 04-12-19 C00108424DB92 - 5 day Reconstruction Sidewalk Pier 1 Side (B675) C.4.3 688 318d Reconstruction Sidewalk Pier 1 Side (B675) 4d 04-15-19 04-18-19 C00108424DB92 - 5 day C.4.3 Reconstruction Sidewalk Pier 2 Side (B675) 689 Reconstruction Sidewalk Pier 2 Side (B675) 318d 4d 04-19-19 04-25-19 C00108424DB92 - 5 day Saw Cut Deck Outside (B675) C.4.3 690 Saw Cut Deck Outside (B675) 1d 04-03-19 04-03-19 C00108424DB92 - 5 day C.4.3 I Remove Noise Barrier (B675) 691 Remove Noise Barrier (B675) 1d 04-04-19 04-04-19 C00108424DB92 - 5 day C.4.3 692 Demo Overhang (B675) 3d 04-05-19 04-09-19 C00108424DB92 - 5 day Demo Overhang (B675) Hydrodemo Interior Bay (B675) C.4.3 693 Hydrodemo Interior Bay (B675) 8d 04-10-19 04-19-19 C00108424DB92 - 5 day C.4.3 694 Install Overhangs (B675) 7d 04-23-19 05-01-19 C00108424DB92 - 5 day Install Overhangs (B675) Install Deck Rebar (B675) C.4.3 695 Install Deck Rebar (B675) 6d 05-02-19 05-09-19 C00108424DB92 - 5 day C.4.3 Pour Deck (B675) 696 Pour Deck (B675) 5d 05-10-19 05-16-19 C00108424DB92 - Bridge 697 C00108424DB92 - Bridge Deck Curing (B675) C.4.3 Deck Curing (B675) 3d 05-17-19 05-21-19 Form, Pour, Strip & Cure Parapet (B675) C43 698 C00108424DB92 - Bridge Form, Pour, Strip & Cure Parapet (B675) 8d 05-22-19 06-03-19 Install Noise Barrier (B675) C.4.3 699 Install Noise Barrier (B675) 5d 06-04-19 06-10-19 C00108424DB92 - 5 day Strip Overhands (B675) C.4.3 700 Strip Overhangs (B675) 8d 06-11-19 06-20-19 C00108424DB92 - 5 day ■ Groove New Surface (B675) C.4.3 701 Groove New Surface (B675) 3d 06-21-19 06-25-19 C00108424DB92 - 5 day 0d C00108424DB92.C.4.4 B677 I Saw Cut and Demo Existing Approach Stab Abt A (B677) C.4.4 702 Saw Cut and Demo Existing Approach Slab Abt A (B677) 1d 07-09-18 07-09-18 C00108424DB92 - 5 day I Install SOE Abt A (B677) C.4.4 703 Install SOE Abt A (B677) 4d 07-10-18 07-13-18 C00108424DB92 - 5 day 1070 I Demo Existing Abutment Abt A (B677) C.4.4 704 Demo Existing Abutment Abt A (B677) 1d 07-16-18 07-16-18 C00108424DB92 - 5 day 107d Install New Foundation Abt A (B677) C.4.4 705 Install New Foundation Abt A (B677) 8d 07-17-18 07-26-18 C00108424DB92 - 5 day 107d Form, Pour, Strip & Cure New Pile Cap Abt A (B677) C.4.4 706 Form, Pour, Strip & Cure New Pile Cap Abt A (B677) 5d 07-27-18 08-02-18 C00108424DB92 - 5 day 107d C.4.4 707 Form, Pour, Strip & Cure New Abutment Stem Abt A (B677) 5d 08-03-18 C00108424DB92 - 5 day 107d Form, Pour, Strip & Cure New Abutment Stem Abt A (B677) 08-09-18 Form, Pour, Strip & Cure Beam Seat Abt A (B677) C.4.4 708 Form, Pour, Strip & Cure Beam Seat Abt A (B677) 08-15-18 C00108424DB92 - 5 day 107d 4d 08-10-18 709 C00108424DB92 - 5 day I Saw Cut and Demo Existing Approach Slab Abt B (B677) C.4.4 Saw Cut and Demo Existing Approach Slab Abt B (B677) 1d 08-16-18 08-16-18 107d II Install SOE Abt B (B677) C.4.4 710 Install SOE Abt B (B677) 4d 08-17-18 08-22-18 C00108424DB92 - 5 day 107d

Remaining Level of Effort

Actual Work

Critical Remaining ...

Actual Level of Effort

Remaining Work

Milestone

C00108424DB92

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Wagman Heavy Civil, Inc.

09-25-17 10:02

C00108424DB92	I-66 Eastbound Widening Inside the Beltway Technical Proposal	09-25-17 10:02

WBS Path	Activity ID	Activity Name	Original Start	Finish	Calendar	Total		2018			2019	2020 2021
			Duration			Float O N D J	FMA	M J J A S	ONDJ	F M A M	JJASON	N D J F M A M J J A S O N D J F M A M J J A S O N
C.4.4	711	Demo Existing Abutment Abt B (B677)	1d 08-23-18	08-23-18	C00108424DB92 - 5 day	107d					Abt B (B677)	
C.4.4	712	Install New Foundation Abt B (B677)	8d 08-24-18	09-05-18	C00108424DB92 - 5 day	107d		1	nstall New	Foundation	Abt B (B677)	
C.4.4	713	Form, Pour, Strip & Cure New Pile Cap Abt B (B677)	5d 09-06-18	09-12-18	C00108424DB92 - 5 day	107d		10	Form, Pou	ır, Strip & Cu	e New Pile Cap	Abt B (B677)
C.4.4	714	Form, Pour, Strip & Cure New Abutment Stem Abt B (B677)	5d 09-13-18	09-19-18	C00108424DB92 - 5 day	107d			Form, Po	ur, Strip & Ci	re New Abutme	nt Stem Abt B (B677)
C.4.4	715	Form, Pour, Strip & Cure Beam Seat Abt B (B677)	4d 09-20-18	09-25-18	C00108424DB92 - 5 day	107d			Form, Po	our, Strip & C	ıre Beam Seat /	Abt B (B677)
C.4.4	716	Install MOT Westmoreland St (B677)	2d 06-20-18	06-21-18	C00108424DB92 - 5 day	92d	1-1-1-1-	I Install M	IOT West	moreland St	B677)	
C.4.4	717	Install SOE Pier 1 (B677)	4d 06-22-18	06-27-18	C00108424DB92 - 5 day	92d		[Install 8	OE Pier 1	(B677)		
C.4.4	718	Excavate for Pier 1 (B677)	1d 06-28-18	06-28-18	C00108424DB92 - 5 day	92d		Excava	te for Pier	1 (B677)		
C.4.4	719	Install Pier 1 Foundation (B677)	8d 06-29-18	07-11-18	C00108424DB92 - 5 day	92d		Install	Pier 1 Fou	ındation (B6	7)	
C.4.4	720	Form, Pour, Strip & Cure Pier 1 Pile Cap (B677)	5d 07-12-18	07-18-18	C00108424DB92 - 5 day	92d		[Form	, Pour, Str	p & Cure Pie	r 1 Pile Cap (B6	57.7)
C.4.4	721	Form, Pour, Strip & Cure Pier 1 Stem (B677)	5d 07-19-18	07-25-18	C00108424DB92 - Bridge	93d	·	[] Form	n, Pour, St	rip & Cure Pi	er 1 Stem (B677	
C.4.4	722	Form, Pour, Strip & Cure Pier 1 Cap (B677)	5d 07-26-18	08-01-18	C00108424DB92 - Bridge	93d		1 Forr	n, Pour, S	trip & Cure P	er 1 Cap (B677	
C.4.4	723	Form, Pour, Strip & Cure Pier 1 Beam Seat (B677)	4d 08-02-18	08-07-18	C00108424DB92 - Bridge	93d		1 For	m, Pour, S	trip & Cure F	ier 1 Beam Sea	ıt:(B677)
C.4.4	724	Install SOE Pier 2 (B677)	4d 06-22-18	06-27-18	C00108424DB92 - 5 day	92d		[Install 8	SOE Pier 2	(B677)		
C.4.4	725	Excavate for Pier 2 (B677)	1d 06-28-18	06-28-18	C00108424DB92 - 5 day	92d		Excava	te for Pier	2 (B677)		
C.4.4	726	Install Pier 2 Foundation (B677)	8d 06-29-18	07-11-18	C00108424DB92 - 5 day	92d		Install	Pier 2 Fou	indation (B6)	7);	
C.4.4	727	Form, Pour, Strip & Cure Pier 2 Pile Cap (B677)	5d 07-12-18	07-18-18	C00108424DB92 - 5 day	92d			- i i i	1 1 1 1 1	r 2 Pile Cap (B6	577)
C.4.4	728	Form, Pour, Strip & Cure Pier 2 Stem (B677)	5d 07-19-18	07-25-18	C00108424DB92 - Bridge	93d		1 1 1 1 1		7 1 1 1 1	er 2 Stem (B677	
C.4.4	729	Form, Pour, Strip & Cure Pier 2 Cap (B677)	5d 07-26-18	08-01-18	C00108424DB92 - Bridge	93d		1 Forr	n, Pour, S	trip & Cure P	er 2 Cap (B677	
C.4.4	730	Form, Pour, Strip & Cure Pier 2 Beam Seat (B677)	4d 08-02-18		C00108424DB92 - Bridge	93d			11 11 11	11 1 1 1 1	ier 2 Beam Sea	
C.4.4	731	Demo SOE Abt A & Pier 1 (B677)	1d 08-08-18	08-08-18	C00108424DB92 - 5 day	136d		-1-2-5-1-1	-1-1-1-1-1	bt A & Pier 1		
C.4.4	732	Demo SOE Abt B & Pier 2 (B677)	1d 08-08-18	08-08-18	C00108424DB92 - 5 day	136d		- 1 - 1 - 1 - 1	1 1 1	bt B & Pier 2	` ; ;' ; ; ;	
C.4.4	733	Perform Existing Bridge Repairs (B677)	25d 02-18-19	03-22-19	C00108424DB92 - Bridge	298d					`	dge Repairs (B677)
C.4.4	734	Saw Cut Deck (B677)	1d 08-09-18	08-09-18	C00108424DB92 - 5 day	136d		I Sav	v Cut Dec	1 1 1 1 1	2,	
C.4.4	735	Demo Deck and Parapet (B677)	3d 08-10-18	_	C00108424DB92 - 5 day	136d			- 1 1 1	and Parapet	B677)	
C.4.4	736	Erect Girder Line (B677)	5d 09-26-18	10-02-18	C00108424DB92 - 5 day	107d				rder Line (B		
C.4.4	737	Install Deck Forms (B677)	6d 10-03-18	10-02-18	C00108424DB92 - 5 day	107d			i i i	eck Forms	i i i i i	
C.4.4 C.4.4			6d 10-03-18	10-10-18		107d			- ; ; ;	Overhangs (1 1 1 1 1	
C.4.4 C.4.4	738 739	Install Overhangs (B677)		10-16-16	C00108424DB92 - 5 day C00108424DB92 - Bridge	64d			1 1 1	1 1 1 7 1		Abt A Abutment (B677)
		Form, Pour, Strip & Cure Backwall Abt A Abutment (B677)	3d 10-19-18			107d			-1 1 1			Abt B Abutment (B677)
C.4.4	740	Form, Pour, Strip & Cure Backwall Abt B Abutment (B677)	3d 10-24-18	10-26-18	C00108424DB92 - 5 day					Deck Reba		ADUITE IL (DOTA)
C.4.4	741	Install Deck Rebar (B677)	4d 10-29-18	11-01-18	C00108424DB92 - 5 day	107d			i i i	i i i i i	~i i ′i i i	(477)
C.4.4	742	Reconstruct Bridge Joint Abt A (B677)	5d 11-02-18	11-08-18	C00108424DB92 - Bridge	64d			- 1 1 1		je Joint Abt A (B	
C.4.4	743	Reconstruct Bridge Joint Abt B (B677)	5d 11-09-18	11-15-18	C00108424DB92 - Bridge	64d			1 1 1	1 1 1 1 1	ge Joint Abt B (I	
C.4.4	744	Demo for Joint Closure Pier 1 (B677)	3d 11-16-18	11-20-18	C00108424DB92 - 5 day	107d			1 1 1	1 1 1 1 1	Closure Pier 1 (I	
C.4.4	745	Joint Closure Pour Pier 1 (B677)	4d 11-21-18	11-26-18	C00108424DB92 - Bridge	64d	. - - - -				our Pier 1 (B677	
C.4.4	746	Demo for Joint Closure Pier 2 (B677)	3d 11-27-18	11-29-18	C00108424DB92 - 5 day	108d			1 7 1	1 1 1 1 1	Closure Pier 2 (`
C.4.4	747	Joint Closure Pour Pier 2 (B677)	4d 11-30-18	12-05-18	C00108424DB92 - Bridge	65d			- 1 1 1	1 1 1 1 1	our Pier 2 (B67	7)
C.4.4	748	Pour Deck (B677)	4d 12-06-18	12-11-18	C00108424DB92 - Bridge	65d			1 1 1	our Deck (B		
C.4.4	749	Deck Curing (B677)	3d 12-12-18	_	C00108424DB92 - Bridge	65d			I D	eck Curing (1 1 1 1 1	
C.4.4	750	Form, Pour, Strip & Cure Approach Slab Abt A Abutment (B677)	4d 02-18-19	02-21-19	C00108424DB92 - Bridge	65d						e Approach Slab Abt 'A Abutment (B677)
C.4.4	751	Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B677)	4d 02-22-19	02-27-19	C00108424DB92 - Bridge	65d				1 1 1 1 1	1 1 7 1 1	re Approach Slab Abt B Abutment (B677)
C.4.4	752	Form, Pour, Strip & Cure Parapet (B677)	8d 02-28-19	03-11-19	C00108424DB92 - Bridge	65d				1 1 1 1 1		ure Parapet (B677)
C.4.4	753	Strip Overhangs (B677)	6d 03-12-19	03-19-19	C00108424DB92 - 5 day	65d					Overhangs (B6	
C.4.4	754	Groove Widened Deck (B677)	3d 03-20-19	03-22-19	C00108424DB92 - 5 day	65d				1 1 1 1 1	ve Widened De	
C.4.4	755	Extend Slope Protection Abt A (B677)	3d 03-25-19	03-27-19	C00108424DB92 - 5 day	347d						tion Abt A (B677)
C.4.4	756	Extend Slope Protection Abt B (B677)	3d 03-28-19	04-01-19	C00108424DB92 - 5 day	347d				1 1 1 1 1		ction Abt B (B677)
C.4.4	757	Reconstruction Sidewalk Pier 1 Side (B677)	3d 04-02-19	04-04-19	C00108424DB92 - 5 day	347d				1 1 5 1 1	1 1 1 1 1	ewalk Pier 1 Side (B677)
C.4.4	758	Reconstruction Sidewalk Pier 2 Side (B677)	3d 04-05-19		C00108424DB92 - 5 day	347d				[Re		lewalk Pier 2 Side (B677)
C00108424E	759	Landscaping Landscaping Segment 1	79d 06-26-19 30d 09-03-19		C00108424DB92 - Planting	291d 167d						C00108424DB92.C.4.5 Final Surface / Landscaping andscaping Segment 1
C.4.5	760	Mill & Overlay Sta 120 to B-675	6d 06-26-19	07-03-19	C00108424DB92 - Paving	213d				.+		lay \$ta 120 to B-675
C.4.5	761	Final Striping Sta 120 to B-675	5d 07-05-19	07-11-19	C00108424DB92 - Paving	213d					1 1 1 1 1	ing Sta 120 to B-675
C.4.5	762	Toll Gantry #2 Shift to Final	1d 07-12-19		C00108424DB92 - 5 day	276d						y;#2;Shift to Final
C.4.5	762	Mill & Overlay B-675 to Sta 162	6d 07-15-19	_	C00108424DB92 - 9 day C00108424DB92 - Paving	213d						erlay B-675 to Sta 162
C.4.5	764	Final Striping B-675 to Sta 162	5d 07-23-19	_	C00108424DB92 - Paving	213d					1 1 1 1 1	iping B-675 to Sta 162
0.4.5	104	ו ווומו סמוףוווץ ב-טוט נט סנמ 102	5u 07-25-19	01-23-19	COUTOUHZHDD9Z - Favilig	210U	1 1 1 1	1 1 1 1 1	1 1 1	1 1 1 1 1	u imiai Sti	

Remaining Level of Effort

Actual Work

Critical Remaining ...

Remaining Work

Milestone

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0108424DB92			I-66 Eastbound W	/idening Insid	de the Beltway Technical I	Proposal		09-25-17 10:0
Path	Activity ID	Activity Name	Original Start Duration	Finish	Calendar	Total Float O N	2018 D J F M A M J J A S O N D	2019 2020 2021 J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N
C00108424DB92.C	.5 Segment 2 Sta 17	72+00 to 238+00	357d 02-18-19	06-30-20		307d		C00108424DB92.C.5 Segment 2 Sta 172+00
C.5	765	Remove Remainder of Noise Barrier D1 & D2 (Segment 2)	10d 02-18-19	03-01-19	C00108424DB92 - 5 day	607d		Remove Remainder of Noise Barrier D1 & D2 (Segment 2)
C.5	766	Install Foundations for Remainder of Noise Barrier D1 & D2 (Segment 2)	15d 03-04-19	03-22-19	C00108424DB92 - 5 day	607d		: Install Foundations for Remainder of Noise Barrier D1 & D2 (Segment 2)
C.5	767	Install Noise Barrier Panels for Remainder of Noise Barrier D1 & D2 (Segment 2)	15d 03-25-19	04-12-19	C00108424DB92 - 5 day	607d		Install Noise Barrier Panels for Remainder of Noise Barrier D1 & D2 (Segment 2)
C.5	768	Remove Noise Barrier E1 (Segment 2)	15d 02-18-19	03-08-19	C00108424DB92 - 5 day	222d		Remove Noise Barrier E1 (Segment 2)
C.5	769	Install Foundations for Remainder of Noise Barrier E1 (Segment 2)	20d 03-11-19	04-05-19	C00108424DB92 - 5 day	222d		Install Foundations for Remainder of Noise Barrier E1 (Segment 2)
C.5	770	Install Noise Barrier Panels for Remainder of Noise Barrier E1 (Segment 2)	20d 04-08-19	05-06-19	C00108424DB92 - 5 day	222d		Install Noise Barrier Panels for Remainder of Noise Barrier E1 (Segment 2)
C00108424DB92	2.C.5.1 Segment 2A		240d 05-09-19	04-08-20		101d		C00108424DB92;C.5.1; Segment 2A
C.5.1	771	Install Remaining Phase 2A MOT (Sta 172 to B 678)(Segment 2A)	5d 05-09-19	05-15-19	C00108424DB92 - 5 day	156d		Install Remaining Phase 2A MOT (Sta 172 to B 678)(Segment 2A)
C.5.1	772	Clear and Grub (Sta 172 to B 678)(Segment 2A)	6d 05-16-19	05-23-19	C00108424DB92 - 5 day	156d		Clear and Grub (Sta 172 to B 678)(Segment 2A)
C.5.1	773	Repair Crossing 180 (Sta 172 to B 678)(Segment 2A)	10d 05-24-19	06-07-19	C00108424DB92 - 5 day	156d		□ Repair Crossing 180 (Sta 172 to B 678)(Segment 2A)
C.5.1	774	Repair Crossing 183+50 (Sta 172 to B 678)(Segment 2A)	10d 06-10-19	06-21-19	C00108424DB92 - 5 day	156d		Repair Crossing 183+50 (Sta 172 to B 678) (Segment 2A)
C.5.1	775	Repair Crossing 184+50 (Sta 172 to B 678)(Segment 2A)	10d 06-24-19	07-08-19	C00108424DB92 - 5 day	156d		Repair Crossing 184+50 (Sta 172 to B 678)(Segment 2A)
C.5.1	776	Repair /Replace West Bound Pipes 189 to 195 (Sta 172 to B 678)(Segment 2A)	10d 07-09-19	07-22-19	C00108424DB92 - 5 day	156d		□ Repair /Replace West Bound Pipes 189 to 195 (Sta 172 to B 678)(Segment 2
C.5.1	777	Replace Crossing 202 (Sta 172 to B 678)(Segment 2A)	10d 07-23-19	08-05-19	C00108424DB92 - 5 day	156d		Replace Crossing 202 (Sta 172 to B 678)(Segment 2A)
C.5.1	778	Remove Guardrail (Sta 172 to B 678)(Segment 2A)	5d 08-06-19	08-12-19	C00108424DB92 - 5 day	156d		□ Remove Guardrail (Sta 172 to B 678)(Segment 2A);
C.5.1	779	Install Remaining Drainage (Sta 172 to B 678)(Segment 2A)	15d 08-13-19	09-03-19	C00108424DB92 - 5 day	156d		Install Remaining Drainage (Sta 172 to B 678)(Segment 2A)
C.5.1	780	Demo Existing Pavement (Sta 172 to B 678)(Segment 2A)	6d 09-04-19	09-11-19	C00108424DB92 - 5 day	156d		Demo Existing Pavement (Sta 172 to B 678) (Segment 2A)
C.5.1	781	Earthwork (Sta 172 to B 678)(Segment 2A)	10d 09-12-19	09-25-19	C00108424DB92 - 5 day	156d		□ Earthwork (\$ta 172 to B 678)(Segment 2A)
C.5.1	782	Install MB-7F (Sta 172 to B 678)(Segment 2A)	15d 09-26-19	10-16-19	C00108424DB92 - 5 day	156d		☐ Install MB-7F (Sta 172 to B 678)(\$egment 2A)
C.5.1	783	Install MB-12C (Sta 172 to B 678)(Segment 2A)	8d 10-17-19	10-28-19	C00108424DB92 - 5 day	156d		□: Install MB-12C (Sta 172 to B 678)(Segment 2A)
C.5.1	784	Install BPPS-1 (Sta 172 to B 678)(Segment 2A)	8d 10-29-19	11-07-19	C00108424DB92 - 5 day	156d		Install BPP\$-1 (Sta 172 to B 678)(\$egment 2A)
C.5.1	785	Install Soil Cement (Sta 172 to B 678)(Segment 2A)	15d 11-08-19	11-29-19	C00108424DB92 -	114d		Install Soil Cement (Sta 172 to B 678)(Segment 2A)
C.5.1	786	Install CTA (Sta 172 to B 678)(Segment 2A)	15d 12-02-19	12-20-19	C00108424DB92 -	114d		☐ Install CTA (Sta 172 to B678)(Segment 2A)
C.5.1	787	Install Asphalt to IM Layer (Sta 172 to B 678)(Segment 2A)	10d 03-16-20	03-27-20	C00108424DB92 - Paving	98d		□ Install Asphalt to IM Layer (Sta 172 to B 678)(Segmen
C.5.1	788	Complete Ditches (Sta 172 to B 678)(Segment 2A)	3d 03-30-20	04-01-20	C00108424DB92 - 5 day	98d		Complete Ditches (Sta 172 to B 678) (Segment 2A)
C.5.1	789	Install Permanent Signage (Sta 172 to B 678)(Segment 2A)	5d 04-02-20	04-08-20	C00108424DB92 - 5 day	98d		1 Install Permanent Signage (Sta 172 to B 678)(Segm
C.5.1	790	Install Portion of Phase 3A MOT (B678 to Sta 238)(Segment 2A)	4d 06-26-19	07-01-19	C00108424DB92 - 5 day	0d		Install Portion of Phase 3AMOT (B678 to Sta 238)(Segment 2A)
C.5.1	791	Clear and Grub (B678 to Sta 238)(Segment 2A)	4d 07-02-19	07-08-19	C00108424DB92 - 5 day	0d		Clear and Grub (B678 to \$ta 238)(Segment 2A)
C.5.1	792	Replace Portion of Crossing Sta 211+50 (B678 to Sta 238)(Segment 2A)	8d 07-09-19	07-18-19	C00108424DB92 - 5 day	0d		■ Replace Portion of Crossing Sta 211+50 (B678 to Sta 238)(Segment 2A)
C.5.1	793	Replace Pipe Sta 212 to 214 (B678 to Sta 238)(Segment 2A)	8d 07-09-19	07-18-19	C00108424DB92 - 5 day	0d		■ Replace Pipe Sta 212 to 214 (₿678 to Sta 238)(\$egment 2A)
C.5.1	794	Replace Crossing Sta 219 (B678 to Sta 238)(Segment 2A)	8d 07-09-19	07-18-19	C00108424DB92 - 5 day	0d		Replace Crossing \$ta 219 (B678 to \$ta 238)(Segment 2A)
C.5.1	795	Replace Crossing Sta 237 (B678 to Sta 238)(Segment 2A)	8d 07-09-19	07-18-19	C00108424DB92 - 5 day	0d		Replace Crossing Sta 237 (B678 to Sta 238)(Segment 2A)
C.5.1	796	Demo Remaining Guardrail and Barrier (B678 to Sta 238)(Segment 2A)	4d 07-19-19	_	C00108424DB92 - 5 day	0d		Demo Remaining Guardrail and Barrier (B678 to Sta 238)(Segment 2A)
C.5.1	797	Install Remaining Drainage (B678 to Sta 238)(Segment 2A)	5d 07-25-19		C00108424DB92 - 5 day	0d		Install Remaining Drainage (B678 to Sta 238)(Segment 2A)
C.5.1	798	Demo Existing Pavement (B678 to Sta 238)(Segment 2A)	4d 08-01-19	08-06-19	C00108424DB92 - 5 day	0d		Demo Existing Pavement (B678 to Sta 238) (Segment 2A)
C.5.1	799	Earthwork (B678 to Sta 238)(Segment 2A)	5d 08-07-19		C00108424DB92 - 5 day	0d		■ Earthwork (B678 to Sta 238)(Segment 2A)
C.5.1	800	Install Soil Cement (B678 to Sta 238)(Segment 2A)	8d 08-14-19	08-23-19	C00108424DB92 -	0d		Install Soil Cement (B678 to Sta 238) (Segment 2A)
C.5.1	801	Install CTA (B678 to Sta 238)(Segment 2A)	8d 08-26-19	09-05-19	C00108424DB92 -	0d		Install CTA (B678 to Sta 238)(Segment 2A)
C.5.1	802	Install MB-7F (B678 to Sta 238)(Segment 2A)	8d 09-06-19	09-17-19	C00108424DB92 - 5 day	0d		Install MB-7F (B678 to Sta 238) (Segment 2A)
C.5.1	803	Install BPPS-1 (B678 to Sta 238)(Segment 2A)	8d 09-18-19	09-27-19	C00108424DB92 - 5 day	0d		Install BPPS+1 (B678 to Sta 238)(Segment 2A)
C.5.1	804	Install Asphalt to IM Layer (B678 to Sta 238)(Segment 2A)	8d 09-30-19	10-09-19	C00108424DB92 - Paving	0d		Install As phalt to IM Layer (B678 to Sta 238) (Segment 2A)
C.5.1	805	Complete Ditches (B678 to Sta 238)(Segment 2A)	4d 10-10-19		C00108424DB92 - 5 day	0d		Complete Ditches (B678 to Sta;238)(Segment 2A)
	2.C.5.2 Segment 2B		151d 10-16-19		0004004045550	139d		C00108424DB92.C.5.2 Segment 2B
C.5.2	806	Install Remaining Phase 2B MOT (Sta 172 to B 678)(Segment 2B)	5d 10-16-19	10-22-19	C00108424DB92 - 5 day	116d		I Install Remaining Phase 2B MOT (Sta 172 to B 678)(Segment 2B)
C.5.2	807	Install Remaining Drainage (Sta 172 to B 678)(Segment 2B)	10d 10-23-19	11-05-19	C00108424DB92 - 5 day	116d		□ Install Remaining Drainage (\$ta:172 to B 678)(Segment 2B)
C.5.2	808	Install RW-4 (Sta 172 to B 678)(Segment 2B)	20d 11-06-19	12-04-19	C00108424DB92 - 5 day	116d		Install RW-4 (Sta 172 to B 678) (Segment 2B)
C.5.2	809	Install 8-3 (Sta 172 to B 678)(Segment 2B)	2d 12-05-19	12-06-19	C00108424DB92 - 5 day	116d		Install 8-3 (\$ta 172 to B 678)(Segment 2B)
			54 12 00 10	12 12 10	C00109424DD02 5 day	1164		Demo Existing Payament (Sta 172 to B 678) (Segment 28)

Demo Existing Pavement (Sta 172 to B 678)(Segment 2B)

Install Rough Electrical (Sta 172 to B 678)(Segment 2B)

Install Asphalt to IM Layer (Sta 172 to B 678)(Segment 2B)

Install Soil Cement (Sta 172 to B 678)(Segment 2B)

Install CTA (Sta 172 to B 678)(Segment 2B)

Install MB-7F (Sta 172 to B 678)(Segment 2B)

Install BPPS-1 (Sta 172 to B 678)(Segment 2B)

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5d 12-09-19

5d 12-16-19

10d 12-23-19

10d 03-06-20

15d 03-20-20

8d 04-10-20 04-22-20

10d 04-23-20 05-06-20

12-13-19

12-20-19

03-05-20

03-19-20

04-09-20

Wagman Heavy Civil, Inc.

Demo Existing Pavement (Sta 172 to B 678)(Segment 2B)

I Install Rough Electrical (Sta 172 to B 678)(Segment 2B)

Install Soil Cement (\$ta 172 to B 678) (Segment 2B)

☐ Install CTA (Sta 172 to B 678)(Segment 2B)

Install MB-7F (Sta 172 to B 678)(Segment 2B)

☐ Install BPPS-1 (Sta 172 to B 678)(Segment 2B)
☐ Install Asphalt to IM Layer (Sta 172 to B 678)(Segment

116d

116d

74d

C00108424DB92 - 5 day

C00108424DB92 - 5 day

C00108424DB92 - 5 day

C00108424DB92 - 5 day

C00108424DB92 - Paving

C00108424DB92 -

C00108424DB92 -

I-66 Eastbound Widening Inside the Beltway Technical Proposal	09-25-17 10:02	
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WBS Path		Activity ID	Activity Name	Original	Start	Finish	Calendar		2018	2019 2020 2021
				Duration				Float	ONDJFMAMJJASOND	J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J
	C.5.2	817	Complete Electrical (Sta 172 to B 678)(Segment 2B)	5d	05-07-20	05-13-20	C00108424DB92 - 5 day			Complete Electrical (Sta 172 to B 678)(S
	C.5.2	818	Install SOE (Ramp I)(Segment 2B)	10d	10-23-19	11-05-19	C00108424DB92 - 5 day	/ 170d		□ Install SQE (Ramp I)(Segment 2B)
	C.5.2	819	Install RW-3 (Ramp I)(Segment 2B)	12d	11-06-19	11-21-19	C00108424DB92 - 5 day	/ 170d		Install RW-3 (Ramp I)(Segment 2B)
	C.5.2	820	Install Remaining Drainage (Ramp I)(Segment 2B)	5d	11-22-19	11-29-19	C00108424DB92 - 5 day	/ 170d		🏮 Install Remaining Drainage (Ramp I)(Segment 2B)
	C.5.2	821	Demo Existing Pavement (Ramp I)(Segment 2B)	2d	12-02-19	12-03-19	C00108424DB92 - 5 day	/ 170d		Demo Existing Pavement (Ramp I)(Segment 2B)
	C.5.2	822	Install Rough Electrical (Ramp I)(Segment 2B)	5d	12-04-19	12-10-19	C00108424DB92 - 5 day	/ 170d		II Install Rough Electrical (Ramp I)(Segment 2B)
	C.5.2	823	Install Soil Cement (Ramp I)(Segment 2B)	6d	12-11-19	12-18-19	C00108424DB92 -	128d		□ Install Soil Cement (Ramp I)(Segment 2B)
	C.5.2	824	Install CTA (Ramp I)(Segment 2B)	6d	12-19-19	12-27-19	C00108424DB92 -	128d		🗓 Install CTA (Ramp:I)(Segment 2B)
	C.5.2	825	Install MB-7F (Ramp I)(Segment 2B)	8d	12-30-19	01-09-20	C00108424DB92 - 5 day	/ 170d] Install MB-7F (Ramp I)(Segment 2B)
	C.5.2	826	Install Asphalt to IM Layer (Ramp I)(Segment 2B)	5d	03-16-20	03-20-20	C00108424DB92 - Paving	124d		I Install Asphalt to IM Layer (Ramp I)(Segment
	C.5.2	827	Install Guardrail (Ramp I)(Segment 2B)	2d	03-23-20	03-24-20	C00108424DB92 - 5 day	/ 124d		I Install Guardrail (Ramp I)(Segment 2B)
	C.5.2	828	Install Impact Attenuator (Ramp I)(Segment 2B)	1d	03-25-20	03-25-20	C00108424DB92 - 5 day	/ 124d		I Install Impact Attenuator (Ramp I)(Segment 2
	C.5.2	829	Complete Electrical (Ramp I)(Segment 2B)	3d	03-26-20	03-30-20	C00108424DB92 - 5 day	/ 124d		t Complete Electrical (Ramp I) (Segment 2B)
	C.5.2	830	Install Permanent Signage (Ramp I)(Segment 2B)	3d	03-31-20	04-02-20	C00108424DB92 - 5 day	/ 124d		Install Permanent Signage (Ramp I)(Segme
	C.5.2	831	Install Portion of Phase 3B MOT (B678 to Sta 238)(Segment 2B)		10-16-19	10-17-19	C00108424DB92 - 5 day			I Install Portion of Phase 3B MOT (B678 to Sta 238)(Segment
	C.5.2	832	Replace Remianing Portion of Crossing Sta 211+50 (B678 to Sta 238)(Segment 2B)		10-18-19	10-23-19	C00108424DB92 - 5 day			Replace Remianing Portion of Crossing Sta 211+50 (B678 t
	C.5.2	833	Install Remaining Drainage (B678 to Sta 238)(Segment 2B)		10-24-19	10-29-19	C00108424DB92 - 5 day			I Install Remaining Drainage (B678 to Sta 238)(Segment 2B)
	C.5.2	834	Demo Existing Pavement (B678 to Sta 238)(Segment 2B)		10-30-19	11-04-19	C00108424DB92 - 5 day			Demo Existing Payement (B678 to Sta 238)(Segment 2B)
	C.5.2	835	Install Rough Electrical (B678 to Sta 238)(Segment 2B)		11-05-19	11-07-19	C00108424DB92 - 5 day			I Install Rough Electrical (B678 to Sta 238)(Segment 2B)
	C.5.2	836	Install Soil Cement (B678 to Sta 238)(Segment 2B)		11-08-19	11-15-19	C00108424DB92 -	0d		Install Soil Cement (B678 to Sta 238)(Segment 2B)
	C.5.2	837	Install CTA (B678 to Sta 238)(Segment 2B)		11-18-19	11-25-19	C00108424DB92 -	0d		Install CTA (B678 to Sta 238)(Segment 2B)
	C.5.2	838	Install MB-7F (B678 to Sta 238)(Segment 2B)		11-26-19	12-04-19	C00108424DB92 - 5 day			Install MB-7F (B678 to Sta 238)(Segment 2B)
	C.5.2	839	Install MB-7A (B678 to Sta 238)(Segment 2B)		12-05-19	12-12-19	C00108424DB92 - 5 day			Install MB-7A (B678 to Sta 238)(Segment 2B)
	C.5.2	840	Install Asphalt to IM Layer (B678 to Sta 238)(Segment 2B)		12-13-19	03-19-20	C00108424DB92 - Paving			Install Asphalt to IM Layer (B678 to Sta 238)(\$
	C.5.2	841	Complete Electrical (B678 to Sta 238)(Segment 2B)		03-20-20	_	C00108424DB92 - 1 aving	,		Complète Electrical (B678 to Sta 238)(Segme
	C.5.2	842	Retrofit BMP 9-1 (B678 to Sta 238)(Segment 2B)		03-25-20	_	C00108424DB92 - 5 day			Retrofit BMP 9-1 (B678 to Sta 238)(Segmer
	C00108424DB92.C.		Trettonic Divin 9-1 (D070 to Sta 250) (Segment 2D)		05-16-19		C00100424DB92 - 3 day	246d		C00108424DB92.C.5.3 B678
	C.5.3	843	Install MOT (B678)		05-16-19	_	C00108424DB92 - 5 day			I Install MOT (B678)
	C.5.3	844	Saw Cut and Demo Existing Approach Slab Abt A (B678)		05-17-19	_	C00108424DB92 - 5 day			I Saw Cut and Demo Existing Approach Slab Abt A (B678)
	C.5.3	845	Install SOE Abt A (B678)		05-20-19		C00108424DB92 - 5 day			I: Install SOE Abt A (B678)
	C.5.3	846	Demo Existing Abutment Abt A (B678)		05-24-19	05-24-19	C00108424DB92 - 5 day			Demo Existing Abutment Abt A (B678)
	C.5.3	847	Install New Foundation Abt A (B678)		05-28-19	06-06-19	C00108424DB92 - 5 day			☐ Install New Foundation Abt A (B678)
	C.5.3	848	Form, Pour, Strip & Cure New Pile Cap Abt A (B678)		06-07-19	06-13-19	C00108424DB92 - 5 day			Form, Pour, Strip & Cure New Pile Cap Abt A (B678)
	C.5.3	849	Form, Pour, Strip & Cure New Abutment Stem Abt A (B678)		06-14-19	06-20-19	C00108424DB92 - 5 day			Form, Pour, Strip & Cure New Abutment Stem Abt A (B678)
	C.5.3	850	Form, Pour, Strip & Cure Beam Seat Abt A (B678)		06-21-19		C00108424DB92 - 5 day			[] Form, Pour, Strip & Curé Béam Seat Abt A (B678)
	C.5.3	851	Saw Cut and Demo Existing Approach Slab Abt B (B678)		05-17-19	05-23-19	C00108424DB92 - 5 day			Saw;Cut and Demo Existing Approach Slab Abt B (B678)
	C.5.3	852	Install SOE Abt B (B678)		05-24-19	05-20-19	C00108424DB92 - 5 day			Install SOE Abt B (8678)
	C.5.3	853	Demo Existing Abutment Abt B (B678)		05-24-19		C00108424DB92 - 5 day			Demo Existing Abutment Abt B (B678)
	C.5.3	854	Install New Foundation Abt B (B678)		06-03-19		C00108424DB92 - 5 day			Install New Foundation Abt B (B678)
			, ,				,			If Form, Pour, Strip &:Cure:New Pile Cap Abt B:(B678)
	C.5.3	855	Form, Pour, Strip & Cure New Pile Cap Abt B (B678)		06-13-19	_	C00108424DB92 - 5 day		-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4	Form, Pour, Strip & Cure New Abutment Stem Abt B (B678)
	C.5.3	856	Form, Pour, Strip & Cure New Abutment Stem Abt B (B678)		06-20-19	06-26-19	C00108424DB92 - 5 day			
	C.5.3	857	Form, Pour, Strip & Cure Beam Seat Abt B (B678)		06-27-19		C00108424DB92 - 5 day			Form, Pour, Strip & Cure Beam Seat Abt B (B678) Linetal MOT N. Strammers St (B678)
	C.5.3	858	Install MOT N. Sycamore St (B678)		05-17-19		C00108424DB92 - 5 day			Install MOT N. Sycamore St. (B678)
	C.5.3	859	Install Pier SOE (B678)		05-20-19		C00108424DB92 - 5 day			I Install Pier SQE (B678)
	C.5.3	860	Excavate for Pier (B678)		05-24-19		C00108424DB92 - 5 day		-4-4-4-4-4-4-4-4-4-4-4-4-4	Excàvate for Pièr (8678)
	C.5.3	861	Install Pier Foundation (B678)		05-28-19		C00108424DB92 - 5 day			nstall Pier Foundation (B678)
	C.5.3	862	Form, Pour, Strip & Cure Pier Pile Cap (B678)		06-07-19		C00108424DB92 - 5 day			[] Form, Pour, Strip & Cure Pier Pile Cap (B678)
	C.5.3	863	Form, Pour, Strip & Cure Pier Stem (B678)		06-14-19		C00108424DB92 - Bridge			[] Form, Pour, Strip & Cure Pier Stem (B678)
	C.5.3	864	Form, Pour, Strip & Cure Pier Cap (B678)		06-21-19		C00108424DB92 - Bridge	180d		Form, Pour, Strip & Cure Pier Cap (B678)
	C.5.3	865	Form, Pour, Strip & Cure Pier Beam Seat (B678)		06-28-19		C00108424DB92 - Bridge		-4	☐ Form, Pdur, Strip & Cure Pier Bearn Seat (B678)
	C.5.3	866	Demo SOE Abts & Pier (B678)		07-08-19		C00108424DB92 - 5 day			I Demo SOE Abts & Pier (B678)
	C.5.3	867	Perform Existing Bridge Repairs (B678)	25d	05-20-19	06-24-19	C00108424DB92 - Bridge	273d		Perform Existing Bridge Repairs (B678)
								000.1		is iCaiu Cuti Daali (DC70)
	C.5.3	868	Saw Cut Deck (B678)	1d	07-09-19	07-09-19	C00108424DB92 - 5 day	/ 223d		I Saw Cut Deck (B678)
	C.5.3 C.5.3	868 869	Saw Cut Deck (B678) Demo Deck and Parapet (B678)		07-09-19 07-10-19		C00108424DB92 - 5 day C00108424DB92 - 5 day			I Demo Deck and Parapet (B678)

C00108424DB92

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h		Activity ID	Activity Name	Original Start Duration	Finish	Calendar	Total Float	al 2018 2019 2020 : at O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M	2021
	C.5.3	871	Install Deck Forms (B678)	5d 07-19-19	07-25-19	C00108424DB92 - 5 day	223d		13 3 4
	C.5.3	872	Install Overhangs (B678)	6d 07-26-19	08-02-19	C00108424DB92 - 5 day	223d	_	
	C.5.3	873	Form, Pour, Strip & Cure Backwall Abt A Abutment (B678)	5d 08-05-19	08-09-19	C00108424DB92 - Bridge	180d		
	C.5.3	874	Form, Pour, Strip & Cure Backwall Abt B Abutment (B678)	5d 08-12-19	08-16-19	C00108424DB92 - Bridge	180d	- 	
	C.5.3	875	Install Deck Rebar (B678)	5d 08-19-19	08-23-19	C00108424DB92 - 5 day	223d		
	C.5.3	876	Reconstruct Bridge Joint Abt A (B678)	5d 08-26-19	08-30-19	C00108424DB92 - Bridge	180d		1-1-1-
	C.5.3	877	Reconstruct Bridge Joint Abt B (B678)	5d 09-03-19	09-09-19	C00108424DB92 - Bridge	180d		
	C.5.3	878	Pour Deck (B678)	3d 09-10-19	09-12-19	C00108424DB92 - Bridge	180d	-1	
	C.5.3	879	Deck Curing (B678)	3d 09-13-19	09-17-19	C00108424DB92 - Bridge	180d	- 	
	C.5.3	880	Form, Pour, Strip & Cure Approach Slab Abt A Abutment (B678)	3d 09-18-19	09-20-19	C00108424DB92 - 5 day	223d		(B678)
	C.5.3	881	Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B678)	3d 09-18-19	09-20-19	C00108424DB92 - 5 day	223d		-111
	C.5.3	882	Form, Pour, Strip & Cure Parapet (B678)	6d 09-23-19	09-30-19	C00108424DB92 - Bridge	180d		
	C.5.3	883	Strip Overhangs (B678)	6d 10-01-19	10-08-19	C00108424DB92 - 5 day	223d		
	C.5.3	884	Groove Widened Deck (B678)	3d 10-09-19	10-11-19	C00108424DB92 - 5 day	223d	,	
	C.5.3	885	Reconstruct Slope Protection Abt A (B678)	3d 10-14-19	10-16-19	C00108424DB92 - 5 day	239d		
	C.5.3	886	Reconstruct Slope Protection Abt B (B678)	3d 10-17-19	10-21-19	C00108424DB92 - 5 day	239d		+-+-+-
	C.5.3	887	Reconstruction Sidewalk Abt A (B678)	3d 10-22-19	10-24-19	C00108424DB92 - 5 day	239d	 	
	C.5.3	888	Reconstruction Sidewalk Abt B (B678)	3d 10-25-19	10-29-19	C00108424DB92 - 5 day	239d		
С	00108424DB92.C		e / Landscaping	60d 04-08-20	06-30-20	0001001212202 0 000,	202d		Surface
_	C.5.4	897	Landscaping Segment 2	30d 04-08-20	05-20-20	C00108424DB92 - Planting	107d	💻 🖟	
	C.5.4	898	Mill & Overlay Sta 172 to B-678	6d 05-14-20	05-21-20	C00108424DB92 - Paving	74d		1-1-1-
	C.5.4	899	Final Striping Sta 172 to B-678	5d 05-22-20	05-29-20	C00108424DB92 - Paving	74d	_	
	C.5.4	900	Mill & Overlay B-678 to Sta 238	6d 06-01-20	06-08-20	C00108424DB92 - Paving	74d	-1	
	C.5.4	901	Final Striping B-678 to Sta 238	5d 06-09-20	06-15-20	C00108424DB92 - Paving	74d	_	
	C.5.4	902	Mill & Overlay Ramp I & Fairfax Drive	6d 06-16-20	06-23-20	C00108424DB92 - Paving	74d		x Drive
	C.5.4	903	Final Striping Ramp I & Fairfax Drive	5d 06-24-20	06-30-20	C00108424DB92 - Paving	74d		x Drive
С	00108424DB92.C	C.5.5 B681		48d 07-02-19	09-05-19		147d	© C00108424DB92;C.5.5 B681	
	C.5.5	889	Perform Steel Modifications (B681)	5d 08-14-19	08-20-19	C00108424DB92 - 5 day	144d	ld Perform Steel Modifications (B681)	
	C.5.5	890	Drill Foundations (B681)	10d 07-02-19	07-16-19	C00108424DB92 - 5 day	144d	ld Drill Foundations (B681)	
	C.5.5	891	Rebar Form and Pour Foundations (B681)	6d 07-17-19	07-24-19	C00108424DB92 - 5 day	144d	ld ::::::::::::::::::::::::::::::::::::	1 1 1
	C.5.5	892	Rebar From and Pour Pier Columns (B681)	8d 07-25-19	08-05-19	C00108424DB92 - Bridge	101d	d Reþar, From and Pour Pier, Columns (B681)	1-1-1-
	C.5.5	893	From Rebar and Pour Pier Cap (B681)	6d 08-06-19	08-13-19	C00108424DB92 - Bridge	101d	d From Rebar and Pour Pier Cap (B681)	
	C.5.5	894	Install Bearing Pedistal and Assembly (B681)	6d 08-21-19	08-28-19	C00108424DB92 - 5 day	144d	ld III Install Bearing Pedistal and Assembly (B6β1)	
	C.5.5	895	Transfer Load (B681)	2d 08-29-19	08-30-19	C00108424DB92 - 5 day	144d	ld (Transfer Load (B681)	
	C.5.5	896	Demo Existing Pier (B681)	3d 09-03-19	09-05-19	C00108424DB92 - 5 day	144d	ld J Demo Existing Pier (B681)	
C00	108424DB92.C.6	Segment 3 238+0	00 to 312+42	356d 07-02-19	11-10-20		137d	d V C00108424DB92.	2.C,6 S
С	5.6	904	Clear and Grub for Noise Barrier H1 Extension (Segment 3)	10d 03-30-20	04-10-20	C00108424DB92 - 5 day	89d	nd Clear and Grub for Noise Barrier H1 E	Extension
С	5.6	905	Install Foundations for Noise Barrier H1 Extension (Segment 3)	20d 04-14-20	05-11-20	C00108424DB92 - 5 day	89d	od Install Foundations for Noise Barrie	ier H1 E
С	2.6	906	Install Noise Barrier Panels for Noise Barrier H1 Extension (Segment 3)	20d 05-12-20	06-09-20	C00108424DB92 - 5 day	89d	od 🔲 Install Noise Barrier Panels for N	Noise B
С	00108424DB92.C	C.6.1 Segment 3A		40d 03-25-20	05-19-20		0d	d	t 3A
	C.6.1	907	Install Remaing Phase 3A MOT (Segment 3A)	3d 03-25-20	03-27-20	C00108424DB92 - 5 day	0d	old I, Install Remaing; Phase 3A MOT (Segme	rent 3A)
	C.6.1	908	Clear and Grub (Segment 3A)	2d 03-30-20	03-31-20	C00108424DB92 - 5 day	0d	ld Clear and Grub (Segment 3A)	
	C.6.1	909	Replace Crossing Sta 257 (Segment 3A)	5d 04-01-20	04-07-20	C00108424DB92 - 5 day	0d	old Replace Crossing Sta 257 (Segment 3	3A)
	C.6.1	910	Replace Crossing Sta 269 (Segment 3A)	5d 04-01-20	04-07-20	C00108424DB92 - 5 day	0d	old Peptace Crossing Sta 269 (Segment 3	3A)
	C.6.1	911	Replace Crossing Sta 272 (Segment 3A)	5d 04-01-20	04-07-20	C00108424DB92 - 5 day	0d	nd Replace Crossing Sta 272 (Segment 3	3A)
	C.6.1	912	Replace Crossing Sta 278 (Segment 3A)	5d 04-01-20	04-07-20	C00108424DB92 - 5 day	0d	nd ■ Replace Crossing Sta 278 (Segment β	3A)
	C.6.1	913	Replace Crossing Sta 290+50 (Segment 3A)	5d 04-01-20	04-07-20	C00108424DB92 - 5 day	0d	od 📗 Replace Crossing Sta 290+50 (Segme	ient 3A)
	C.6.1	914	Replace Crossing Sta 293 (Segment 3A)	5d 04-01-20	04-07-20	C00108424DB92 - 5 day	0d		1 1 1
	C.6.1	915	Replace Crossing Sta 300 (Segment 3A)	5d 04-01-20	04-07-20	C00108424DB92 - 5 day	0d	old Peplace Crossing Sta 300 (Segment 3	3A)
	C.6.1	916	Install Remaining Drainage (Segment 3A)	4d 04-02-20	04-07-20	C00108424DB92 - 5 day	0d	nd Install Remaining Drainage (Segment)	t 3A)
	C.6.1	917	Demo Existing Pavement (Segment 3A)	4d 04-08-20	04-14-20	C00108424DB92 - 5 day	0d	od ■ Demo Existing Pavement (Segment 3.	3A)
	C.6.1	918	Install Soil Cement (Segment 3A)	6d 04-15-20	04-22-20	C00108424DB92 -	0d	nd Install Şoil Cement (Segment 3A)	
	C.6.1	919	Install CTA (Segment 3A)	6d 04-23-20	04-30-20	C00108424DB92 -	0d	od Install CTA (Segment 3A)	
	C.6.1	920	Install MB-7F (Segment 3A)	3d 05-01-20	05-05-20	C00108424DB92 - 5 day	0d	ld I Install MB-7F (Segment 3A)	
	C.6.1	921	Install BPPS-1 (Segment 3A)	3d 05-06-20	05-08-20	C00108424DB92 - 5 day	0d	od II Install BPPS-1 (Segment 3A)	
				'	-	-			<u> </u>

	Activity ID	Activity Name	Original S	Start	Finish	Calendar	Total		2018			2019	2020 2021
	1		Duration					ONDJFN		SOND	JF		F M A M J J A S O N D J F M A M J J A S
C.6.1	922	Install Asphalt to IM Layer (Segment 3A)	4d 0	5-11-20	05-14-20	C00108424DB92 - Paving	0d						I Install Asphalt to IM Layer (Segment 3A)
C.6.1	923	Complete Ditches (Segment 3A)	3d 0	5-15-20	05-19-20	C00108424DB92 - 5 day	0d						Complete Ditches (Segment 3A)
	92.C.6.2 Segment 3B			5-20-20			13d						C00108424DB92.C.6;2 Seg
C.6.2	1284	Traffic Shift Toll Gantry 3			05-27-20	C00082135DB77 - 7 Day	0d						I Traffic Shift Toll Gantry 3
C.6.2	924	Install Remaing Phase 3B MOT (Segment 3B)			05-26-20	C00108424DB92 - 5 day	0d		.			 	Install Remaing Phase 3B MOT (Segment
C.6.2	925	Replace Pipe Sta 247 (Segment 3B)			06-03-20	C00108424DB92 - 5 day	0d						Replace Pipe Sta 247 (Segment 3B)
C.6.2	926	Install Remaining Drainage (Segment 3B)			06-10-20	C00108424DB92 - 5 day	0d						Install Remaining Drainage (Segment 3B) Remove Guardrail & Barrier (Segment 3
C.6.2	927 928	Remove Guardrail & Barrier (Segment 3B)			06-17-20 06-29-20	C00108424DB92 - 5 day	0d 0d						■ Install RW-7 (Segment 3B)
C.6.2	929	Install RW-7 (Segment 3B) Demo Existing Pavement (Segment 3B)			06-29-20	C00108424DB92 - 5 day C00108424DB92 - 5 day	0d 0d						Demo Existing Pavement (Segment 3B)
C.6.2	930	Install Rough Electrical (Segment 3B)			06-30-20	C00108424DB92 - 5 day	0d 0d					 	Install Rough Electrical (Segment 3B)
C.6.2	931	Demo Existing Noise Barrier H1 & Barrier (Segment 3B)			07-08-20	C00108424DB92 - 5 day	0d 0d						Demo Existing Noise Barrier H1 & Barrier
C.6.2	932	Install Moment Slab Sta 254+50 to 272 (Segment 3B)			07-23-20	C00108424DB92 - 5 day	0d						☐ Install Moment Slab Sta 254+50 to 27
C.6.2	933	Install Noise Barrier Sta 254+50 to 272 (Segment 3B)			07-30-20	C00108424DB92 - 5 day	0d						I Install Noise Barrier \$ta 254+50 to 2
C.6.2	934	Install MB 7F Sta 254+50 to 272 (Segment 3B)			08-13-20	C00108424DB92 - 5 day	0d 0d						Install MB 7F Sta 254+50 to 272 (\$
C.6.2	935	Install Soil Cement (Segment 3B)			08-25-20	C00108424DB92 -	0d					 ;;;;;;;;;	☐ Install Soil Cement (Segment 3B)
C.6.2	936	Install CTA (Segment 3B)			09-04-20	C00108424DB92 -	0d						■ Install CTA (Segment 3B)
C.6.2	937	Install MB-7F (Segment 3B)	8d 0	9-08-20	09-17-20	C00108424DB92 - 5 day	0d						Install MB-7F (Segment 3B)
C.6.2	938	Install MB-12C (Segment 3B)	8d 0	9-18-20	09-29-20	C00108424DB92 - 5 day	0d						■ Install MB-12C (Segment 3B)
C.6.2	939	Install Asphalt to IM Layer (Segment 3B)	5d 0	9-30-20	10-06-20	C00108424DB92 - Paving	0d						Install Asphalt to IM Layer (Se
C.6.2	940	Complete Electrical (Segment 3B)	4d 1	0-07-20	10-12-20	C00108424DB92 - 5 day	0d				1111	,	Complete Electrical (Segmen
C.6.2	941	Install Permanet Signage (Segment 3B)	2d 1	0-13-20	10-14-20	C00108424DB92 - 5 day	0d						I Install Permanet Signage (Se
C.6.2	942	Install BMP 15-1 (Segment 3B)	3d 1	0-15-20	10-19-20	C00108424DB92 - 5 day	13d						Install BMP 15-1 (Segment 3
C.6.2	943	Install BMP 16-1 (Segment 3B)	3d 1	0-20-20	10-22-20	C00108424DB92 - 5 day	13d						I Install BMP 16-1 (Segment β
C00108424DB9	92.C.6.3 B679		231d 0	7-02-19	05-19-20		106d				111	 	C00108424DB92.C.6.3 B679
C.6.3	944	Install Pedestrian Shield (B679)			07-09-19	C00108424DB92 - 5 day	146d					Install Pedestrian	
C.6.3	945	Saw Cut and Demo Existing Approach Slab Abt A (B679 Phase 1)			07-10-19	C00108424DB92 - 5 day	146d						no Existing Approach Slab Abt A (B679 Phase 1)
C.6.3	946	Install SOE Abt A (B679 Phase 1)			07-18-19	C00108424DB92 - 5 day	146d					Install SOE Abt A	1`: : : : : : : : : : : : : : : : : : :
C.6.3	947	Form, Pour, Strip & Cure Beam Seat Abt A (B679 Phase 1)			07-26-19	C00108424DB92 - 5 day	146d						ip & Cure Beam Seat Abt A (B679 Phase 1)
C.6.3	948	Saw Cut and Demo Existing Approach Slab Abt B (B679 Phase 1)			07-10-19	C00108424DB92 - 5 day	146d					 	no Existing Approach Slab Abt B (B679 Phase 1)
C.6.3	949 950	Install SOE Abt B (B679 Phase 1)			07-18-19 07-26-19	C00108424DB92 - 5 day	146d					Install SOE Abt E	ip & Cure Beam Seaf Abt B (B679 Phase 1)
C.6.3	951	Form, Pour, Strip & Cure Beam Seat Abt B (B679 Phase 1) Perform Existing Substructure Repairs (B679 Phase 1)			08-13-19	C00108424DB92 - 5 day C00108424DB92 - Bridge	146d 249d						ing Substructure Repairs (B679 Phase 1)
C.6.3	952	Saw Cut Deck (B679 Phase 1)			07-29-19	C00108424DB92 - 5 day	146d					Saw Cut Deck	
C.6.3	953	Demo Deck and Parapet (B679 Phase 1)			08-05-19	C00108424DB92 - 5 day	146d						nd Parapet (B679 Phase 1)
C.6.3	954	Erect Girder Line (B679 Phase 1)			08-07-19	C00108424DB92 - 5 day	146d					 ;	ine;(B679 Phase 1)
C.6.3	955	Install Deck Forms (B679 Phase 1)			08-15-19	C00108424DB92 - 5 day	146d						orms (B679 Phase 1)
C.6.3	956	Install Overhangs (B679 Phase 1)			08-22-19	C00108424DB92 - 5 day	146d					I Install Overh	angs (B679 Phase 1)
C.6.3	957	Install Deck Rebar (B679 Phase 1)			08-30-19	C00108424DB92 - 5 day	146d					I Install Deck	Rebar (B679 Phase 1)
C.6.3	960	Pour Deck (B679 Phase 1)	1d 0	9-03-19	09-03-19	C00108424DB92 - Bridge	103d) Pour Deck ((B679 Phase 1)
C.6.3	961	Deck Curing (B679 Phase 1)	6d 0	9-04-19	09-11-19	C00108424DB92 - Bridge	103d]]]	🛭 Deck Curin	ng (B679 Phase 1)
C.6.3	962	Form, Pour, Strip & Cure Approach Slab Abt AAbutment (B679 Phase 1)	6d 0	9-12-19	09-19-19	C00108424DB92 - 5 day	146d					🛭 Form, Pou	ır, Ştrip & Cure Approach Şlab Abt AAbutment (B679 Pha
C.6.3	963	Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B679 Phase 1)	6d 0	9-20-19	09-27-19	C00108424DB92 - 5 day	146d					☐ Form, Pou	ur, Strip & Cure Approach Slab Abt B Abutment (B679 Pr
C.6.3	964	Form, Pour, Strip & Cure Parapet (B679 Phase 1)	6d 0	9-30-19	10-07-19	C00108424DB92 - 5 day	146d					□ Form Po	our, Strip & Cure Parapet (B679 Phase 1)
C.6.3	965	Strip Overhangs (B679 Phase 1)	5d 1	0-08-19	10-14-19	C00108424DB92 - 5 day	146d				1.1.1	 ☐ Strip Ov	/erhangs (B679 Phase 1)
C.6.3	966	Saw Cut and Demo Existing Approach Slab Abt A (B679 Phase 2)			10-15-19	C00108424DB92 - 5 day	146d						t and Demo Existing Approach Slab Abt A (B679 Phase 2
C.6.3	967	Saw Cut and Demo Existing Approach Slab Abt B (B679 Phase 2)			10-16-19	C00108424DB92 - 5 day	146d						t and Demo Existing Approach Slab Abt B (B679 Phase
C.6.3	969	Saw Cut Deck (B679 Phase 2)			10-17-19	C00108424DB92 - 5 day	146d						it Deck (B679 Phase 2)
C.6.3	970	Demo Deck and Parapet (B679 Phase 2)			10-22-19	C00108424DB92 - 5 day	146d						Deck and Parapet (B679 Phase 2)
C.6.3	971	Install Deck Forms (B679 Phase 2)			10-30-19	C00108424DB92 - 5 day	146d					 ; ; ; ; ; ; ;	Deck Forms (B679 Phase 2)
C.6.3	972 973	Install Overhangs (B679 Phase 2)			11-06-19	C00108424DB92 - 5 day	146d 146d						Overhangs (B679 Phase 2) Deck Rebar (B679 Phase 2)
C.6.3	973	Install Deck Rebar (B679 Phase 2) Pour Deck (B679 Phase 2)			11-14-19	C00108424DB92 - 5 day C00108424DB92 - Bridge	146d 103d						Deck (8679 Phase 2)
C.6.3	977	Deck Curing (B679 Phase 2)			11-15-19	C00108424DB92 - Bridge	103d					! ! ! ! ! ! ! ! !	k Çuring (B679 Phase 2)
C.6.3	978	Form, Pour, Strip & Cure Approach Slab Abt AAbutment (B679 Phase 2)			12-04-19	C00108424DB92 - 5 day	146d						m, Pour, Strip & Cure Approach Slab Abt AAbutment (B
5.0.0	0.0	, . sai, on p a on o	00 1	10	0. 10	333.3312 15502 - 0 day	, rou	 	<u> </u>			 	A The state of the

Path		Activity ID	Activity Name	Original Start	Finish	Calendar	Total	2018 2019 2020 2
auı		Activity ID	Activity Name	Duration	I IIIISII	Calcillai		
	C.6.3	979	Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B679 Phase 2)	6d 12-05-19	12-12-19	C00108424DB92 - 5 day	146d	☐ Form, Pour, Strip & Cure Approach Slab Abt B Abt
	C.6.3	980	Form, Pour, Strip & Cure Parapet (B679 Phase 2)	6d 12-13-19	02-21-20	C00108424DB92 - Bridge	103d	Form, Pour, Strip & Cure Parapet (B679 Ph
	C.6.3	981	Install Noise Barrier (B679 Phase 2)	5d 02-24-20	02-28-20	C00108424DB92 - 5 day	103d	🕻 Install Noise Barrier (B679 Phase 2)
	C.6.3	982	Strip Overhangs (B679 Phase 2)	5d 03-02-20	03-06-20	C00108424DB92 - 5 day	103d	Il Strip Overhangs (B679 Phase 2)
	C.6.3	983	Saw Cut and Demo Existing Approach Slab Abt A (B679 Phase 3)	1d 03-09-20	03-09-20	C00108424DB92 - 5 day	103d	
L	C.6.3	984	Saw Cut and Demo Existing Approach Slab Abt B (B679 Phase 3)	1d 03-10-20	03-10-20	C00108424DB92 - 5 day	103d	I Saw Cut and Demo Existing Approach Sla
L	C.6.3	986	Saw Cut Deck (B679 Phase 3)	1d 03-11-20	03-11-20	C00108424DB92 - 5 day	103d	I Salw Cut Deck (B679 Phalse 3)
L	C.6.3	987	Demo Deck (B679 Phase 3)	3d 03-12-20	03-16-20	C00108424DB92 - 5 day	103d	I Demo Deck (8679 Phase 3)
L	C.6.3	988	Install Deck Forms (B679 Phase 3)	4d 03-17-20	03-20-20	C00108424DB92 - 5 day	103d	□ Install Deck Forms (B679 Phase 3)
L	C.6.3	989	Install Deck Rebar (B679 Phase 3)	4d 03-23-20	03-26-20	C00108424DB92 - 5 day	103d	I Install Deck Rebar (B679 Phase 3)
L	C.6.3	990	Reconstruct Bridge Joint Abt A (B679 Phase 3)	6d 03-27-20	04-03-20	C00108424DB92 - Bridge	103d	## Reconstruct Bridge Joint Abt A (B679 P
	C.6.3	991	Reconstruct Bridge Joint Abt B (B679 Phase 3)	6d 04-06-20	04-14-20	C00108424DB92 - Bridge	103d	□ Reconstruct Bridge Joint Abt B (B679
	C.6.3	992	Pour Deck (B679 Phase 3)	1d 04-15-20	04-15-20	C00108424DB92 - Bridge	103d	
L	C.6.3	993	Deck Curing (B679 Phase 3)	6d 04-16-20	04-23-20	C00108424DB92 - Bridge	103d	□ Deck Guring (B679 Phase 3)
L	C.6.3	994	Form, Pour, Strip & Cure Approach Slab Abt AAbutment (B679 Phase 3)	6d 04-24-20	05-01-20	C00108424DB92 - 5 day	103d	
	C.6.3	995	Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B679 Phase 3)	6d 05-04-20	05-11-20	C00108424DB92 - 5 day	103d	1 Form, Pour, Strip; & Cure Approach
	C.6.3	996	Groove Deck (B679)	6d 05-12-20	05-19-20	C00108424DB92 - 5 day	103d	□ GrodvelDeck (B679)
	C00108424DB92.0	C.6.5 Final Surfac	e / Landscaping	124d 05-21-20	11-10-20		137d	U 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	C.6.5	1000	Mill & Overlay B-679 to End	5d 10-28-20	11-03-20	C00108424DB92 - Paving	0d	I Mill,& Överlay β-67
	C.6.5	1001	Final Striping B-679 to Sta End	4d 11-04-20	11-09-20	C00108424DB92 - Paving	0d	
	C.6.5	1281	Final Traffic Shift Gantry #3	1d 11-10-20	11-10-20	C00108424DB92 - 5 day	0d	I Final Traffic Shift;0
	C.6.5	997	Landscaping Segment 3	30d 05-21-20	09-18-20	C00108424DB92 - Planting	107d	Landscaping Segment
	C.6.5	998	Mill & Overlay Sta 238 to B-679	5d 10-15-20	10-21-20	C00108424DB92 - Paving	0d	
	C.6.5	999	Final Striping Sta 238+D588 to B-679	4d 10-22-20	10-27-20	C00108424DB92 - Paving	0d	II/ Final Striping Sta 23
С	C00108424DB92.C.7	7 Segment 4		825d 06-06-18	08-03-21		0d	
	C.7	1002	Traffic Signal Modifications	44d 06-22-20	08-21-20	C00108424DB92 - 5 day	240d	Traffic \$ignal Modifications
	C.7.1	C.7.1 B680 & W&0	OD Trail Mods Clear for noise Barriers (B680 & Trail)	397d 12-13-18 5d 12-13-18	06-19-20 12-19-18	C00108424DB92 - 5 day	102d 19d	C00108424DB92.C.7.1 B680 & C00108424DB92.C.7.1 B680 & C00108424DB92.C.7.1 B680 &
H	C.7.1	1003	Install Foundations for Noise Barriers (B680 & Trail)	20d 12-20-18	01-18-19	C00108424DB92 - 5 day	19d	Install Foundations for Noise Barriers (B680 & Trail)
	C.7.1	1004	Install Pannels for Noise Barriers (B680 & Trail)	20d 01-21-19	02-15-19	C00108424DB92 - 5 day	19d	Install Pannels for Noise Barriers (B680 & Trail)
	C.7.1	1005	Grade for Bypass Trail Sta 20 to Lee Hihgway (B680 & Trail)	6d 02-18-19	02-15-19	C00108424DB92 - 5 day	19d	🗓 Grade for Bypass Trail \$ta;20;to Lee Hingway (B680;& Trail)
	C.7.1	1007	Install 21B for Bypass Trail Sta 20 to Lee Hingway (B680 & Trail)	6d 03-01-19	03-08-19	C00108424DB92 -	16d	□ Install 21B for Bybass Trail Sta 20 to Lee Hingway (B680 & Trail)
	C.7.1	1008	Install Pavement for Bypass Trail Sta 20 to Lee Hingway (B680 & Trail)	3d 03-18-19	03-20-19	C00108424DB92 - Paving	11d	I Install Pavement for Bypass; Trail Sta 20 to Lee Hihgway (B680, & Trail)
	C.7.1	1009	Install Temporary Path Lee Highway to Sta 61 (B680 & Trail)	3d 03-21-19	03-25-19	C00108424DB92 - 5 day	11d	Install Temporary Path Lee Highway to Sta 61 (B680 & Trail)
	C.7.1	1010	Install New Path Along Ramp (B680 & Trail)	8d 03-26-19	03-23-19	C00106424DB92 - 9 day	11d	Install:New Path Along Ramp (B680 & Trail)
	C.7.1	1011	Insall Termporary Connection New Path Along Ramp to Sta 63+25 (B680 & Trail)	3d 04-05-19	_	C00108424DB92 - 5 day	11d	』 Insall Termporary Connection New Path Along Ramp to Sta 63+25 (B680
_	C.7.1	1012	Relocate Shelter Sta 63 (B680 & Trail)	2d 04-10-19	04-03-13	C00108424DB92 - 5 day	11d	Relocaté Shelfer Sta 63 (B680 & Trail)
	C.7.1	1013	Install Pedestrial MOT (B680 & Trail)	2d 04-12-19	04-15-19	C00108424DB92 - 5 day	11d	Install Pedestrial:MOT;(B680 &Trail)
	C.7.1	1014	Install MSE Wall Abutment A (B680 & Trail)	22d 04-16-19	05-16-19	C00108424DB92 - 5 day	11d	Install MSE Wall Abutment A (6680 & Trail)
	C.7.1	1015	Install Foundation Abt A (B680 & Trail)	10d 05-17-19	05-10-13	C00108424DB92 - 5 day	11d	□ Install Foundation Abt A (B680 & Trail)
	C.7.1	1016	Form, Pour, Strip & Cure Pile Cap Abt A (B680 & Trail)	6d 06-03-19	06-10-19	C00108424DB92 - 5 day	11d	1 Form; Pour; Strip; & Cure Pile; Cap Abt A (B680; & Trail)
	C.7.1	1017	Form, Pour, Strip & Cure Pile Cap Abt A (B680 & Trail)	6d 06-11-19	06-10-19	C00108424DB92 - 5 day	11d	Form, Pour, Strip & Cure Beam Seats Abt A (B680 & Trail)
	C.7.1	1017	Form, Pour Strip & Cure Beam Seats Abt A (Bood & Trail)	6d 06-19-19	06-16-19	C00108424DB92 - 5 day	11d	Form, Pour Strip & Cure Backwall Abt A (B680 & Trail)
	C.7.1	1019	Form, Pour, Strip & Cure Approach Slab Abt A (B680 & Trail)	6d 06-27-19	07-05-19	C00108424DB92 - 5 day	11d	D Form, Pour, Strip & Cure Approach Slab Abt A (B680 & Trail)
	C.7.1	1019	Install MSE Wall Abutment B (B680 & Trail)	22d 04-16-19	05-16-19	C00108424DB92 - 5 day	11d	Install MSE Wall'Abutment B (B680 & Trail)
	C.7.1	1020	Install Foundation Abt B (B680 & Trail)	10d 05-17-19	05-10-19	C00108424DB92 - 5 day	11d	Install Foundation Abt B (B680 & Trail)
		1021	Form, Pour, Strip & Cure Pile Cap Abt B (B680 & Trail)	6d 06-03-19	06-10-19	C00108424DB92 - 5 day	11d	10 Form, Pour, Strip & Cure Pile Cap Abt B (B680 & Trail)
		1022	Form, Pour, Strip & Cure Pile Cap Aut B (B680 & Trail) Form, Pour, Strip & Cure Beam Seats Abt B (B680 & Trail)	6d 06-11-19	06-10-19	C00108424DB92 - 5 day	11d	II Form, Pour, Strip & Cure Beam Seats Abt B (B680 & Trail)
	C.7.1		Form, Pour Strip & Cure Beam Seats Abt B (Bood & Trail)	6d 06-19-19	06-16-19	C00108424DB92 - 5 day	11d	Form, Pour Strip & Cure Backwall Abt B (B680 & Trail)
	C.7.1	1024		6d 06-27-19	07-05-19	-		Form, Pour, Strip & Cure Approach Slab Abt B (B680 & Trail)
	C.7.1 C.7.1	1024		ou 06-27-19	07-05-19	C00108424DB92 - 5 day	11d	☐ Install SOE Pier 1 (B680 & Trail)
	C.7.1 C.7.1 C.7.1	1025	Form, Pour, Strip & Cure Approach Slab Abt B (B680 & Trail)	104 04 46 40		C00108424DB92 - 5 day	25d	
	C.7.1 C.7.1 C.7.1 C.7.1	1025 1026	Install SOE Pier 1 (B680 & Trail)	10d 04-16-19	_	C00109424DD00 5 45	254	Install Foundation Digr 1 (PG90 9 Trail)
	C.7.1 C.7.1 C.7.1 C.7.1 C.7.1	1025 1026 1027	Install SOE Pier 1 (B680 & Trail) Install Foundation Pier 1 (B680 & Trail)	10d 05-01-19	05-14-19	C00108424DB92 - 5 day	25d	Install Foundation Pier 1 (B680 & Trail)
	C.7.1 C.7.1 C.7.1 C.7.1 C.7.1 C.7.1	1025 1026 1027 1028	Install SOE Pier 1 (B680 & Trail) Install Foundation Pier 1 (B680 & Trail) Form, Pour, Strip Pile Cap Pier 1 (B680 & Trail)	10d 05-01-19 6d 05-15-19	05-14-19 05-22-19	C00108424DB92 - 5 day	25d	🗓 Form, Pour, Strip Pile Cap Pier,1 (B680 & Trail)
	C.7.1 C.7.1 C.7.1 C.7.1 C.7.1	1025 1026 1027	Install SOE Pier 1 (B680 & Trail) Install Foundation Pier 1 (B680 & Trail)	10d 05-01-19	05-14-19	-		

	I-66 Eastbound Widening Inside the Beltway Technical Proposal	09-25-17 10:02
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WBS Path	Activity ID	Activity Name	Original Start	Finish	Calendar	Total	2018	2019	2020 2021
			Duration			Float O N D J F M A	AMJJASOND JEM	AMJJASON	D J F M A M J J A S O N D J F M A M J J A S O N
C.7.1	1031	Install SOE Pier 2 (B680 & Trail)	10d 04-16-19	04-30-19	C00108424DB92 - 5 day	25d		■ Install SOE Pier 2	
C.7.1	1032	Install Foundation Pier 2 (B680 & Trail)	10d 05-01-19	05-14-19	C00108424DB92 - 5 day	25d		Install Foundation	h Pier 2 (B680 & Trail)
C.7.1	1033	Form, Pour, Strip Pile Cap Pier 2 (B680 & Trail)	6d 05-15-19	05-22-19	C00108424DB92 - 5 day	25d		Form, Pour, Stri	p Pile Cap Pier 2 (B680 & Trail)
C.7.1	1034	Form, Pour, Strip Pier 2 (B680 & Trail)	10d 05-23-19	06-06-19	C00108424DB92 - Bridge	25d		Form, Pour, St	rip Pier 2 (B680 & Trail)
C.7.1	1035	Form, Pour, Strip Beam Seats Pier 2 (B680 & Trail)	6d 06-07-19	06-14-19	C00108424DB92 - Bridge	25d		Form, Pour, S	trip Beam Seats Pier 2 (B680 & Trail)
C.7.1	1036	Install SOE Pier 3 (B680 & Trail)	10d 04-16-19	04-30-19	C00108424DB92 - 5 day	19d		Install SOE Pier 3	(B680 &:Trail)
C.7.1	1037	Install Foundation Pier 3 (B680 & Trail)	10d 05-01-19	05-14-19	C00108424DB92 - 5 day	19d		Install Foundation	n Pier 3 (B680 & Trail)
C.7.1	1038	Form, Pour, Strip Pile Cap Pier 3 (B680 & Trail)	6d 05-15-19	05-22-19	C00108424DB92 - 5 day	19d		Form, Pour, \$tri	p Pile Cap Pier 3 (B680 & Trail)
C.7.1	1039	Form, Pour, Strip & Cure Stem Pier 3 (B680 & Trail)	6d 05-23-19	05-31-19	C00108424DB92 - Bridge	19d		Form, Pour, Sti	ip & Cure Stem Pier 3 (B680 & Trail)
C.7.1	1040	Form, Pour, Strip Pier 3 (B680 & Trail)	10d 06-03-19	06-14-19	C00108424DB92 - Bridge	19d		Form, Pour, S	trip Pier 3 (B680 & Trail)
C.7.1	1041	Form, Pour, Strip Beam Seats Pier 3 (B680 & Trail)	6d 06-17-19	06-24-19	C00108424DB92 - Bridge	19d		Form, Pour,	Strip Beam Seats Pier 3 (B680 & Trail)
C.7.1	1042	Install SOE Pier 4 (B680 & Trail)	10d 04-16-19	04-30-19	C00108424DB92 - 5 day	25d		Install SOE Pier 4	(B680 & Tràil)
C.7.1	1043	Install Foundation Pier 4 (B680 & Trail)	10d 05-01-19	05-14-19	C00108424DB92 - 5 day	25d		☐ Install Foundation	h Pier 4 (B680 & Trail)
C.7.1	1044	Form, Pour, Strip Pile Cap Pier 4 (B680 & Trail)	6d 05-15-19	05-22-19	C00108424DB92 - 5 day	25d		Form, Pour, \$tri	p Pile Cap Pier 4 (B680 & Trail)
C.7.1	1045	Form, Pour, Strip Pier 4 (B680 & Trail)	10d 05-23-19	06-06-19	C00108424DB92 - Bridge	25d		Form, Pour, St	rip:Pier 4 (B680 & Trail)
C.7.1	1046	Form, Pour, Strip Beam Seats Pier 4 (B680 & Trail)	6d 06-07-19	06-14-19	C00108424DB92 - Bridge	25d		Form, Pour, S	trip Beam Seats Pier 4 (B680 & Trail)
C.7.1	1047	Install SOE Pier 5 (B680 & Trail)	10d 04-16-19	04-30-19	C00108424DB92 - 5 day	25d		☐ Install SOE Pier 5	
C.7.1	1048	Install Foundation Pier 5 (B680 & Trail)	10d 05-01-19	05-14-19	C00108424DB92 - 5 day	25d		: ¬ : : : : : :	n Pier 5 (B680 & Trail)
C.7.1	1049	Form, Pour, Strip Pile Cap Pier 5 (B680 & Trail)	6d 05-15-19	05-22-19	C00108424DB92 - 5 day	25d		Form, Pour, Stri	p Pile Cap Pier 5 (B680 & Trail)
C.7.1	1050	Form, Pour, Strip Pier 5 (B680 & Trail)	10d 05-23-19	06-06-19	C00108424DB92 - Bridge	25d			rip/Pier 5 (B680 & Trail)
C.7.1	1051	Form, Pour, Strip Beam Seats Pier 5 (B680 & Trail)	6d 06-07-19	06-14-19	C00108424DB92 - Bridge	25d			trip Beam Seats Pier 5 (B680 & Trail)
C.7.1	1051	Erect Girders (B680 & Trail)	22d 07-08-19	08-06-19	C00100424DB92 - 5 day	11d			ders (B680 & Trail)
C.7.1	1052	Install Deck Forms (B680 & Trail)	10d 08-07-19	08-20-19	C00108424DB92 - 5 day	11d			Deck Forms (B680 & Trail)
C.7.1	1053	Install Overhangs (B680 & Trail)	10d 08-21-19	09-04-19	C00108424DB92 - 5 day	11d			Overhangs (B680 & Trail)
C.7.1	1054	,		09-04-19	-	11d		: : : : : + : : :	Pour, Strip & Cure Backwall Abt B Abutment (B680 & Trail)
		Form, Pour, Strip & Cure Backwall Abt & Abutment (B680 & Trail)	6d 09-05-19		C00108424DB92 - 5 day			\\\\\\\\	
C.7.1	1056	Form, Pour, Strip & Cure Backwall Abt A Abutment (B680 & Trail)	6d 09-13-19	09-20-19	C00108424DB92 - 5 day	11d			n, Pour, \$trip & Cure Backwall Abt A Abutment (B680 & Trail) tall Deck Rebar (B680 & Trail)
C.7.1	1057	Install Deck Rebar (B680 & Trail)	10d 09-23-19	10-04-19	C00108424DB92 - 5 day	11d		: : : : : : : : :	
C.7.1	1058	Pour Deck (B680 & Trail)	10d 10-07-19	10-18-19	C00108424DB92 - Bridge	11d			bur Deck (B680 & Trail)
C.7.1	1059	Cure Deck (B680 & Trail)	6d 10-21-19	10-28-19	C00108424DB92 - Bridge	11d		: : : : : : : : :	cure Deck (B680 & Trail)
C.7.1	1060	Form, Strip, Pour & Cure Fence Walls (B680 & Trail)	8d 10-29-19	11-07-19	C00108424DB92 - Bridge	11d	- - - -	!!!!!!!	Form, Strip; Pour: & Cure Fence Walls (B680 & Trail)
C.7.1	1061	Install Fence (B680 & Trail)	10d 11-08-19	11-21-19	C00108424DB92 - 5 day	11d			Install Fence (B680 & Trail)
C.7.1	1062	Pave W&OD Tral up to Abutments (B680 & Trail)	5d 11-22-19	11-29-19	C00108424DB92 - Paving	11d		: : : : : : : :	Pave W&OD Tral up to Abutments (B680 & Trail)
C.7.1	1063	Complete Remaining Asphalt Paths (B680 & Trail)	10d 12-02-19	12-13-19	C00108424DB92 - Paving	11d			Complete Remaining Asphalt Paths (B680 & Trail)
C.7.1	1064	Install Rough Electrical (B680 & Trail)	5d 12-16-19	12-20-19	C00108424DB92 - 5 day	74d			I Install Rough Electrical (B680 & Trail)
C.7.1	1065	Install Sidewalk West Side (B680 & Trail)	6d 12-23-19	12-31-19	C00108424DB92 - 5 day	74d			Install Sidewalk West Side (B680 & Trail)
C.7.1	1066	Install Sidewalk East Side (B680 & Trail)	6d 01-02-20	01-09-20	C00108424DB92 - 5 day	74d			🛮 Install Sidewalk East Side (B680 & Trail)
C.7.1	1067	Complete Electrical (B680 & Trail)	5d 01-10-20	01-16-20	C00108424DB92 - 5 day	74d			Complete Electrical (B680 & Trail)
C.7.1	1068	Install Signage (B680 & Trail)	5d 01-17-20		C00108424DB92 - 5 day	74d			Install Signage (B680 & Trail)
C.7.1	1069	Form, Strip, Pour & Cure Benches (B680 & Trail)	6d 01-24-20	01-31-20	C00108424DB92 - 5 day	74d			[] Form, Strip, Pour & Cure Benches (B680 & Trail)
C.7.1	1070	Landscaping West Side (B680 & Trail)	30d 03-16-20	04-27-20	C00108424DB92 - Planting	44d			Landscaping West Side (B680 & Trail)
C.7.1	1071	Landscaping East Side (B680 & Trail)	33d 04-28-20	06-12-20	C00108424DB92 - Planting	44d			Landscaping East Side (B680 & Trail)
C.7.1	1072	Close Trail for Tie Ins	1d 06-12-20	06-13-20	C00082135DB77 - 7 Day	142d			I Close Trail for Tie Ins
C.7.1	1073	Perform Tie Ins	1d 06-13-20	06-14-20	C00082135DB77 - 7 Day	142d			l Perform Tie Iris
C.7.1	1074	Demo Temporary Trails	5d 06-15-20	06-19-20	C00108424DB92 - 5 day	100d			Demo Temporary Trails
C00108424DB92.C.	.7.2 B682		64d 01-14-19	04-11-19		413d		▼ C00108424DB92.C	7.2 B682
C.7.2	1075	Install MOT (B682)	2d 01-14-19	01-15-19	C00108424DB92 - 5 day	402d	I Insta	II MOT (B682)	
C.7.2	1076	Saw Cut Deck Outside (B682)	1d 01-16-19	01-16-19	C00108424DB92 - 5 day	402d	I Saw	Cut Deck Outside (B68	(2)
C.7.2	1077	Remove Noise Barrier (B682)	4d 01-17-19	01-22-19	C00108424DB92 - 5 day	402d	I Ren	ove Noise Barrier (B68	32)
C.7.2	1078	Demo Overhang (B682)	4d 01-23-19	01-28-19	C00108424DB92 - 5 day	402d	[De	no Overhang (B682)	
C.7.2	1079	Hydrodemo Interior Bay (B682)	8d 01-29-19	02-07-19	C00108424DB92 - 5 day	402d		drodemo Interior Bay (F	3682)
C.7.2	1080	Install Overhangs (B682)	6d 02-08-19	02-15-19	C00108424DB92 - 5 day	402d		stall Overhangs (B682)	
C.7.2	1081	Install Deck Rebar (B682)	6d 02-18-19	02-25-19	C00108424DB92 - 5 day	402d		nstall Deck Rebar (B68	2)
C.7.2	1082	Pour Deck (B682)	5d 02-26-19	03-04-19	C00108424DB92 - Bridge	359d		Pour Deck (B682)	
C.7.2	1083	Deck Curing (B682)	6d 03-05-19	_	C00108424DB92 - Bridge	359d	! ! ! ! ! ! ! ! ! ! ! !	Deck Curing (B682)	
C.7.2	1084	Form, Pour, Strip & Cure Parapet (B682)	8d 03-13-19		C00108424DB92 - Bridge	359d		Form, Pour, Strip & C	ure Parapet (B682)
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C00108424DB92

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1		Activity ID	Activity Name	Original Start	Finish	Calendar	Total			2018	2019	2020 20
				Duration				OND	J F M A M	J J A S O N		O N D J F M A M J J A S O N D J F M A M J
	C.7.2	1085	Install Noise Barrier (B682)		03-29-19	C00108424DB92 - 5 day	402d				It Install Noise Bar	
	C.7.2	1086	Strip Overhangs (B682)		04-08-19	C00108424DB92 - 5 day	402d				Strip Overhang	
	C.7.2	1087	Groove New Surface (B682)		04-11-19	C00108424DB92 - 5 day	402d				Groove New S	
C		C.7.3 B683		64d 01-14-19			413d				C00108424DB9	92.C 7.3 B683
	C.7.3	1088	Install MOT (B683)		01-15-19	C00108424DB92 - 5 day	402d				I Install MOT (B683)	
	C.7.3	1089	Saw Cut Deck Outside (B683)		01-16-19	C00108424DB92 - 5 day	402d				I Saw Cut Deck Outside	
	C.7.3	1090	Remove Noise Barrier (B683)		01-22-19	C00108424DB92 - 5 day	402d				Remove Noise Barrier	
	C.7.3	1091	Demo Overhang (B683)		01-28-19	C00108424DB92 - 5 day	402d				Demo Overhang (B68	
	C.7.3	1092	Hydrodemo Interior Bay (B683)		02-07-19	C00108424DB92 - 5 day	402d				Hydrodemo Interior B	
	C.7.3	1093	Install Overhangs (B683)		02-15-19	C00108424DB92 - 5 day	402d				I Install Overhangs (B Install Deck Rebar	
	C.7.3	1094	Install Deck Rebar (B683)		02-25-19	C00108424DB92 - 5 day	402d				Pour Deck (B683)	(000)
	C.7.3	1095	Pour Deck (B683)		03-04-19	C00108424DB92 - Bridge	359d					2)
	C.7.3	1096	Deck Curing (B683)			C00108424DB92 - Bridge	359d				Deck Curing (B68	
	C.7.3	1097	Form, Pour, Strip & Cure Parapet (B683)		03-22-19	C00108424DB92 - Bridge	359d				I Install Noise Bar	& Cure Parapet (B683)
_	C.7.3	1098	Install Noise Barrier (B683)		03-29-19	C00108424DB92 - 5 day C00108424DB92 - 5 day	402d				Strip Overhang	
\vdash		1099	Strip Overhangs (B683)			-	402d				Groove New S	
	C.7.3	1100	Groove New Surface (B683)	11 1 11	04-11-19	C00108424DB92 - 5 day	402d				C00108424DB9	
=	C.7.4	C.7.4 B684	Install MOT Including Dedectroin Chield (DS04)	64d 01-14-19 2d 01-14-19	01-15-19	C00108424DB92 - 5 day	413d 402d				I Install MOT Including P	
			Install MOT Including Pedestrain Shield (B684)			-					Saw Cut Deck Outside	
_	C.7.4	1102	Saw Cut Deck Outside (B684)		01-16-19	C00108424DB92 - 5 day	402d				Remove Noise Barrier	
	C.7.4 C.7.4	1103 1104	Remove Noise Barrier (B684)		01-22-19	C00108424DB92 - 5 day	402d				Demo Overhang (B68	
	C.7.4	1104	Demo Overhang (B684)		02-07-19	C00108424DB92 - 5 day	402d 402d				Hydrodemo Interior B	
_			Hydrodemo Interior Bay (B684)			C00108424DB92 - 5 day					I Install Overhangs (B	
_	C.7.4	1106 1107	Install Overhangs (B684)		02-15-19	C00108424DB92 - 5 day C00108424DB92 - 5 day	402d				Install Deck Rebar	
	C.7.4 C.7.4		Install Deck Rebar (B684)		02-25-19		402d 359d				Pour Deck (B684)	(5004)
	C.7.4	1108	Pour Deck (B684)		03-04-19	C00108424DB92 - Bridge	359d				Deck Curing (B68	
			Deck Curing (B684)			C00108424DB92 - Bridge						& Cure Parapet (B684)
	C.7.4 C.7.4	1110	Form, Pour, Strip & Cure Parapet (B684) Install Noise Barrier (B684)		03-22-19	C00108424DB92 - Bridge C00108424DB92 - 5 day	359d 402d				Install Noise Bar	
	C.7.4	1112	,		03-29-19	C00108424DB92 - 5 day	402d				Strip Overhang	
	C.7.4	1113	Strip Overhangs (B684)		04-06-19	-	402d				Groove New S	
	0.7. 4 00108424DB92.0	C.7.5 Noise Barrie	Groove New Surface (B684)		03-18-20	C00108424DB92 - 5 day	402u				1 Olooye New St	C00108424DB92.C.7.5 Noise Barriers
	C.7.5	1114	Install MOT (Noise Barrier N1)	2d 07-05-18		C00108424DB92 - 5 day	152d			Install MOT	(Noise Barrier N1)	C00100424DB92.C.7.0 INGISE DAI HEIS
_	C.7.5	1115	Remove Guardrail (Noise Barrier N1)		07-00-18	C00108424DB92 - 5 day	152d				ıardrail (Noise Barrier N1)	
	C.7.5	1116	Clear and Grub (Noise Barrier N1)		07-09-18	C00108424DB92 - 5 day	152d				Grub (Noise Barrier N1)	
	C.7.5	1117	Remove Existing Noise Barrier N1 (Noise Barrier N1)		09-14-18	C00108424DB92 - 5 day	127d				ove Existing Noise Barrier N1	(Noise Barrier M1)
_	C.7.5	1118	Install New Foundations (Noise Barrier N1)		10-12-18	C00108424DB92 - 5 day	127d			1 1 7 1 1 1	tall New Foundations (Noise I	
	C.7.5	1119	Install Noise Barrier Post (Noise Barrier N1)		11-09-18	C00108424DB92 - 5 day	127d				Install Noise Barrier Post (Noi	
	C.7.5	1120	Install Noise Barrier Panels (Noise Barrier N1)	20d 11-12-18	12-10-18	C00108424DB92 - 5 day	127d				Install Noise Barrier Panels	
	C.7.5	1121	Permant Seed (Noise Barrier N1)	3d 12-11-18	12-13-18	C00108424DB92 - Planting	64d			-	Permant Seed (Noise Barr	
	C.7.5	1122	Install New Guardrail (Noise Barrier N1)		12-13-18	C00108424DB92 - Flanking	180d				I Install New Guardrail (Nois	
	C.7.5	1123	Install MOT (Noise Barrier O Extension East)		12-14-18	C00108424DB92 - 5 day	180d				I Install MOT (Noise Barrier	
	C.7.5	1124	Clear and Grub (Noise Barrier O Extension East)		12-10-10	C00108424DB92 - 5 day	180d				Clear and Grub (Noise B	
_	C.7.5	1125	Install New Foundations (Noise Barrier O Extension East)		01-29-19	C00108424DB92 - 5 day	180d					ns (Noise Barrier O Extension East)
_	C.7.5	1126	Install Noise Barrier Post (Noise Barrier O Extension East)		02-26-19	C00108424DB92 - 5 day	180d					r Post (Noise Barrier O Extension East)
	C.7.5	1127	Install Noise Barrier Panels (Noise Barrier O Extension East)		03-26-19	C00108424DB92 - 5 day	180d					rier Panels (Noise Barrier O Extension East)
	C.7.5	1128	Permant Seed (Noise Barrier O Extension East)		03-20-19	C00108424DB92 - Planting	126d				_ i	Noise Barrier O Extension East)
	C.7.5	1129	Install MOT (Noise Barrier O Extensions West)		04-02-19	C00108424DB92 - 5 day	226d					ise Barrier O Extensions West)
	C.7.5	1130	Remove Guardrail (Noise Barrier O Extensions West)		04-02-19	C00108424DB92 - 5 day	226d					rail (Noise Barrier O Extensions West)
	C.7.5	1131	Remove Existing Noise Barrier O Extension (Noise Barrier O Extensions West)		04-05-19	C00108424DB92 - 5 day	226d					ing Noise Barrier O Extension (Noise Barrier D Extensions
	C.7.5	1132	Install New Foundations (Noise Barrier O Extensions West)		05-23-19	C00108424DB92 - 5 day	226d					Foundations (Noise Barrier O Extensions West)
	C.7.5	1133	Install Noise Barrier Post (Noise Barrier O Extensions West)		06-21-19	C00108424DB92 - 5 day	226d					pise Barrier Post (Noise Barrier O Extensions West)
	C.7.5	1134	Install Noise Barrier Panels (Noise Barrier O Extensions West)		07-22-19	C00108424DB92 - 5 day	226d					I Noise Barrier Panels (Noise Barrier O Extensions West)
_	C.7.5	1135	Permant Seed (Noise Barrier O Extensions West)		07-22-19	C00108424DB92 - 9 day C00108424DB92 - Planting	134d					remant Seed (Noise Barrier O Extensions West)
	C.7.5	1136	Install New Guardrail (Noise Barrier O Extensions West)		09-05-19	C00108424DB92 - Flanking	227d					nstall New Guardrail (Noise Barrier O Extensions West)
	J.1.J	1130	THORAIL THOM CHARGE BATTET C EXTENSIONS WEST	14 09-00-19	33-00-18	0001007270082 - 0 udy	221U	1 1 1 1	<u> </u>	<u> </u>	<u> </u>	The state of the s

	Activity ID	Activity Name	Original Start Duration	Finish	Calendar	Total	با جاما مامه	2018		2019	2020 2021
C.7.5	1137	Install MOT (Noise Barrier P)	2d 09-09-19	09-10-19	C00108424DB92 - 5 day	227d	JFMAM	JJASON	DIJFIMIALI	M J J A S O N D J F I	MAMJJASONDJFMAMJJ
C.7.5		,	8d 09-11-19	09-10-19	•	227d 227d					b (Noise Barrier P)
	1138	Clear and Grub (Noise Barrier P)			C00108424DB92 - 5 day					_	
C.7.5	1139	Install New Foundations (Noise Barrier P)	20d 09-23-19	10-18-19	C00108424DB92 - 5 day	227d					Foundations (Noise Barrier P)
C.7.5	1140	Install Noise Barrier Post (Noise Barrier P)	20d 10-21-19	11-15-19	C00108424DB92 - 5 day	227d					ise Barrier Post (Noise Barrier P)
C.7.5	1141	Install Noise Barrier Panels (Noise Barrier P)	20d 11-18-19	12-16-19	C00108424DB92 - 5 day	227d			4-4-4-4-4-4	-1	Noise Barrier Panels (Noise Barrier P)
C.7.5	1142	Permant Seed (Noise Barrier P)	3d 03-16-20	03-18-20	C00108424DB92 - Planting	111d					Permant Seed (Noise Barrier P)
	4DB92.C.7.6 I-66 EDA	<u>_</u>	218d 10-02-20	08-03-21		0d					Y
	424DB92.C.7.6.1 Ramp		165d 10-02-20	05-20-21		0d					v Cpo1
C.7.6		Install MOT (Ramp B & Ramp W)	3d 10-02-20	10-06-20	C00108424DB92 - 5 day	21d					I Install MOT (Ramp B & Ra
C.7.6		Remove Guardrail (Ramp B)	1d 10-07-20	10-07-20	C00108424DB92 - 5 day	21d					Remove Guardrail (Ramp
C.7.6		Demo Existing Pavement (Ramp B)	1d 10-08-20	10-08-20	C00108424DB92 - 5 day	21d					I Demo Existing Pavement (
C.7.6		Adjust Drainage (Ramp B)	5d 10-09-20	10-15-20	C00108424DB92 - 5 day	21d					[] Adjust Drainage (Ramp B
C.7.6	5.1 1147	Earthwork (Ramp B)	6d 10-16-20	10-23-20	C00108424DB92 - 5 day	21d					☐ Earthwork (Ramp B)
C.7.6	5.1 1148	Upgrade Drainage (Ramp B)	6d 10-26-20	11-02-20	C00108424DB92 - 5 day	21d					🚺 Upgrade Drainage (Ram
C.7.6	6.1 1149	Install Underdrain (Ramp B)	3d 11-03-20	11-05-20	C00108424DB92 - 5 day	21d					1 Install Underdrain (Ram
C.7.6	6.1 1150	Install MB-7F (Ramp B)	8d 11-06-20	11-17-20	C00108424DB92 - 5 day	21d				- T - C - C - C - C - C - C - C - C - C	☐ Install MB-7F (Ramp B
C.7.6	5.1 1151	Backfill MB-7f (Ramp B)	4d 11-18-20	11-23-20	C00108424DB92 - 5 day	21d					Backfill MB-7f (Ramp
C.7.6	3.1 1152	Install Soil Cement (Ramp B)	8d 11-24-20	12-04-20	C00108424DB92 -	21d					📗 Install Sqil Cement (F
C.7.6		Install CTA (Ramp B)	8d 12-07-20	12-16-20	C00108424DB92 -	21d					☐ Install CTA (Ramp B
C.7.6	5.1 1154	Install Asphalt to IM layer (Ramp B)	5d 03-16-21	03-22-21	C00108424DB92 - Paving	0d					■ Install Asph
C.7.6		Install OH Signs (Ramp B)	35d 03-23-21	05-11-21	C00108424DB92 - 5 day	0d			1-1-1-1-1-1-1-		Install
C.7.6		Install Permant Signs (Ramp B)	3d 05-12-21	05-14-21	C00108424DB92 - 5 day	0d					I Install
C.7.6		Install Guardrail (Ramp B)	3d 05-17-21	05-19-21	C00108424DB92 - 5 day	0d					I Instal
C.7.6		Install Atenuator (Ramp B)	1d 05-20-21	05-20-21	C00108424DB92 - 5 day	0d					Instal
	424DB92.C.7.6.2 Ram	` ' '	44d 10-07-20	12-07-20	C00100424DB92 - 5 day	153d					C00108424DB92.C.
C.7.6		Clear and Grub (Ramp W)	3d 10-07-20	10-09-20	C00108424DB92 - 5 day	148d					I Clear and Grub (Ramp W
		· · · ·			•						□ Earthwork (Ramp W)
C.7.6		Earthwork (Ramp W)	8d 10-12-20	10-21-20	C00108424DB92 - 5 day	148d					
C.7.6		Upgrade Drainage (Ramp W)	5d 10-22-20	10-28-20	C00108424DB92 - 5 day	148d					Upgrade Drainage (Ram
C.7.6		Install Underdrain (Ramp W)	2d 10-29-20	10-30-20	C00108424DB92 - 5 day	148d					Install Underdrain (Ram
C.7.6	5.2 1163	Install MB-7F (Ramp W)	8d 11-02-20	11-11-20	C00108424DB92 - 5 day	148d					II Install MB-7F (Ramp W
C.7.6		Install Soil Cement (Ramp W)	6d 11-12-20	11-19-20	C00108424DB92 -	108d					🛭 Install Soil Cement (Ra
C.7.6	5.2 1165	Install CTA (Ramp W)	6d 11-20-20	11-30-20	C00108424DB92 -	108d					☐ Install CTA (Ramp W
C.7.6	5.2 1166	Install Asphalt to IM layer (Ramp W)	2d 12-01-20	12-02-20	C00108424DB92 - Paving	85d					I Install Asphalt to IM la
C.7.6	3.2 1167	Install Permanent Signage (Ramp W)	1d 12-03-20	12-03-20	C00108424DB92 - 5 day	148d					Install Permanent Sig
C.7.6	3.2 1168	Install Guardrail (Ramp W)	1d 12-04-20	12-04-20	C00108424DB92 - 5 day	148d					l Install Guardrail (Ran
C.7.6	5.2 1169	Install Atenuator (Ramp W)	1d 12-07-20	12-07-20	C00108424DB92 - 5 day	148d			7-7-1-7-7-7-		I Install Atenuator (Ra
C00108	424DB92.C.7.6.3 Ramp	O A West	121d 10-02-20	03-19-21		46d					C00108422
C.7.6	3.3 1170	Install MOT (Ramp A West & SWM)	2d 10-02-20	10-05-20	C00108424DB92 - 5 day	108d					I Install:MOT (Ramp A West
C.7.6	5.3 1171	Clear and Grub (Ramp A West & SW M)	5d 10-06-20	10-12-20	C00108424DB92 - 5 day	108d					Clear and Grub (Ramp A)
C.7.6		Earthwork for SWM (Ramp A West & SWM)	10d 10-13-20	10-26-20	C00108424DB92 - 5 day	108d					☐ Earthwork for SWM (Rai
C.7.6		Remove Guardrail (Ramp A West)	1d 10-27-20	10-27-20	C00108424DB92 - 5 day	108d					I Remove Guardrail (Ram
C.7.6		Upgrade Drainage (Ramp A West)	5d 10-28-20	11-03-20	C00108424DB92 - 5 day	108d					Upgrade Drainage (Ran
C.7.6		Demo Existing Sholder (Ramp A West)	2d 11-04-20	11-05-20	C00108424DB92 - 5 day	108d					Demo Existing Sholder
					-						Earthwork (Ramp A We
C.7.6		Earthwork (Ramp A West)	2d 11-06-20	11-09-20	C00108424DB92 - 5 day	108d					I Install Underdrain (Ram
C.7.6		Install Underdrain (Ramp A West)	2d 11-10-20	11-11-20	C00108424DB92 - 5 day	108d					
C.7.6		Install MB-7F (Ramp A West)	8d 11-12-20	11-23-20	C00108424DB92 - 5 day	108d					□ Install MB+7F (Ramp A
C.7.6		Install Soil Cement (Ramo A West)	6d 11-24-20	12-02-20	C00108424DB92 -	68d					Install Soil Cement (R
C.7.6		Install CTA (Ramp A West)	6d 12-03-20	12-10-20	C00108424DB92 -	68d					[] Install CTA (Ramp A
C.7.6		Install Asphalt to IM layer (Ramp A West)	4d 12-11-20	03-17-21	C00108424DB92 - Paving	45d					Install Asph
C.7.6		Install Permanent Signage (Ramp A West)	1d 03-18-21	03-18-21	C00108424DB92 - 5 day	45d			<u> </u>		Install Perm
C.7.6	5.3 1183	Install Guardrail (Ramp A West)	1d 03-19-21	03-19-21	C00108424DB92 - 5 day	45d					I Install Gua
C00108	424DB92.C.7.6.4 B686		206d 10-02-20	07-16-21		12d					
C.7.6	6.4 1184	Install Bridge MOT (B686)	2d 10-02-20	10-05-20	C00108424DB92 - 5 day	0d					I Install Bridge MOT (B686)
C.7.6	6.4 1185	Saw Cut and Demo Existing Approach Slab Abt B (B686)	1d 10-06-20	10-06-20	C00108424DB92 - 5 day	42d					I Saw Cut and Demo Existin
C.7.6	5.4 1186	Install SOE Abt B (B686)	10d 10-07-20	10-20-20	C00108424DB92 - 5 day	42d					☐ Install SOE Abt B (B686)
			-	-							

C.7.8.4 1188 Install New Foundation Abt B (8686) C.7.6.4 1188 Form, Pour, Strip & Cure New Pile Cap Abt B (8686) C.7.6.4 1190 Form, Pour, Strip & Cure New Pile Cap (8686) C.7.6.4 1191 Form, Pour, Strip & Cure New Pile Cap (8686) C.7.6.4 1191 Form, Pour, Strip & Cure New Abutternst Stem Abt B (8686) C.7.6.4 1192 Sew Cut and Demo Existing Approach Stab Abt A (8686) C.7.6.4 1193 Install SOE Abt A (8686) C.7.6.4 1194 Demo Existing Approach Stab Abt A (8686) C.7.6.4 1195 Demo Existing Approach Stab Abt A (8686) C.7.6.4 1196 Form, Pour, Strip & Cure New Pile Cap Abt A (8686) C.7.6.4 1197 Form, Pour, Strip & Cure New Pile Cap Abt A (8686) C.7.6.4 1198 Form, Pour, Strip & Cure New Pile Cap Abt A (8686) C.7.6.4 1197 Form, Pour, Strip & Cure New Pile Cap Abt A (8686) C.7.6.4 1198 Form, Pour, Strip & Cure New Pile Cap Abt A (8686) C.7.6.4 1199 Install RT MOT (8686) C.7.6.4 1200 Demo Existing Median Barrier & Attenuator (8686) C.7.6.4 1201 Install SOE (8686) C.7.6.4 1201 Install SOE (8686) C.7.6.4 1202 Excavate for Pier (8686) C.7.6.4 1203 Install Pier Foundation (8686) C.7.6.4 1204 Errow, Strip & Cure Pier Pier Cap (8686) C.7.6.4 1205 Form, Pour, Strip & Cure Pier Stem (8686) C.7.6.4 1206 Form, Pour, Strip & Cure Pier Stem (8686) C.7.6.4 1207 Form, Pour, Strip & Cure Pier Stem (8686) C.7.6.4 1208 Perform Existing Bridge Repairs C.7.6.4 1209 Form, Pour, Strip & Cure Pier Stem (8686) C.7.6.4 1201 Resonation Barrier Shoulder & Intersection Pavement Strip Rt 7 (8686) C.7.6.4 1210 Resonation Barrier Shoulder & Intersection Pavement Strip Rt 7 (8686) C.7.6.4 1211 Extend Stope Protection Abt A (8686) C.7.6.4 1212 Temporative Resonative Droom Line (8686) C.7.6.4 1215 Extend Stope Protection Abt A (8686) C.7.6.4 1216 Form, Pour, Strip & Cure Backwall Abt B Abutment (8686) C.7.6.4 1216 Extend Stope Protection Abt A (8686) C.7.6.4 1217 Form, Pour, Strip & Cure Backwall Abt B Abutment (8686) C.7.6.4 1218 Install Deck Forms (8686) C.7.6.4 1229 Form, Pour, Strip & Cure Backwall Abt B Abutment (8686) C.7.6.4 1229 Form, Pour, Strip & Cur						09-25-17						
C.7.6.4 1188 Install New Foundation Abit B (B686) C.7.6.4 1190 Form, Pour, Strip & Cure New Pile Cap Abit B (B686) C.7.6.4 1191 Form, Pour, Strip & Cure New Abuttment Stern Abit B (B686) C.7.6.4 1192 Saw Cut and Dermo Existing Approach Slab Abit A (B686) C.7.6.4 1193 Instal SOE Abit A (B686) C.7.6.4 1193 Instal SOE Abit A (B686) C.7.6.4 1194 Dermo Existing Abutment Abit A (B686) C.7.6.4 1195 Instal New Foundation Abit A (B686) C.7.6.4 1196 Form, Pour, Strip & Cure New Abuttment Stern Abit A (B686) C.7.6.4 1196 Form, Pour, Strip & Cure New Abuttment Stern Abit A (B686) C.7.6.4 1197 Form, Pour, Strip & Cure New Abuttment Stern Abit A (B686) C.7.6.4 1198 Form, Pour, Strip & Cure New Abuttment Stern Abit A (B686) C.7.6.4 1199 Instal R17 MOT (B686) C.7.6.4 1201 Instal R17 MOT (B686) C.7.6.4 1201 Instal SOE (B686) C.7.6.4 1202 Excavate for Pier (B686) C.7.6.4 1203 Instal Pier Foundation (B686) C.7.6.4 1204 Form, Pour, Strip & Cure Pier Stern (B686) C.7.6.4 1205 Form, Pour, Strip & Cure Pier Stern (B686) C.7.6.4 1206 Form, Pour, Strip & Cure Pier Stern (B686) C.7.6.4 1207 Form, Pour, Strip & Cure Pier Stern (B686) C.7.6.4 1208 Form, Pour, Strip & Cure Pier Stern (B686) C.7.6.4 1209 Form, Pour, Strip & Cure Pier Stern (B686) C.7.6.4 1206 Form, Pour, Strip & Cure Pier Beam Seat (B686) C.7.6.4 1207 Form, Pour, Strip & Cure Pier Beam Seat (B686) C.7.6.4 1208 Form, Pour, Strip & Cure Pier Beam Seat (B686) C.7.6.4 1209 Install BPPS-1 (B686) C.7.6.4 1209 Install BPPS-1 (B686) C.7.6.4 1201 Reconstruction Barrier Shoulder & Intersection Pavement Strip R1 7 (B686) C.7.6.4 1211 Install Attenuator (B686) C.7.6.4 1211 Install Attenuator (B686) C.7.6.4 1212 Temporarily Relocate VDOT Comm Line (B686) C.7.6.4 1214 Demo Deck and Parapet (B686) C.7.6.4 1215 Extend Slope Protection Abit B (B686) C.7.6.4 1216 Install Deck Rebrams (B686) C.7.6.4 1217 Exect Girder Line (B686) C.7.6.4 1221 Form, Pour, Strip & Cure Beackwall Abit B Abutment (B686) C.7.6.4 1222 Install Deck Rebrams (B686) C.7.6.4 1225 Demo for Joint Closure (B686) C.7.6.4 122	Original St	tart F	Finish	Calendar	Total Float	חואור	18 11 A S O N D	20 EM M			020 J J A S O N D J F M	2021
C.7.6.4 1189 Form, Pour, Strip & Cure New Pile Cap Abt B (B686) C.7.6.4 1191 Form, Pour, Strip & Cure New Abtument Stem Abt B (B686) C.7.6.4 1192 Saw Cut and Demo Existing Approach Stab Abt A (B686) C.7.6.4 1193 Install SOE Abt A (B686) C.7.6.4 1194 Demo Existing Approach Stab Abt A (B686) C.7.6.4 1195 Instal New Foundation Abt A (B686) C.7.6.4 1196 Form, Pour, Strip & Cure Wee Abtument Stem Abt A (B686) C.7.6.4 1196 Form, Pour, Strip & Cure New Pile Cap Abt A (B686) C.7.6.4 1197 Form, Pour, Strip & Cure New Abtument Stem Abt A (B686) C.7.6.4 1198 Form, Pour, Strip & Cure New Abtument Stem Abt A (B686) C.7.6.4 1199 Install RT A MOT (B686) C.7.6.4 1190 Demo Existing Median Barrier & Alteruator (B686) C.7.6.4 1190 Linstal RT A MOT (B686) C.7.6.4 1200 Demo Existing Median Barrier & Alteruator (B686) C.7.6.4 1201 Instal SOE (B686) C.7.6.4 1202 Excevate for Per (B686) C.7.6.4 1203 Instal Piler Foundation (B686) C.7.6.4 1204 Form, Pour, Strip & Cure Pier Pile Cap (B686) C.7.6.4 1205 Form, Pour, Strip & Cure Pier Pile Cap (B686) C.7.6.4 1206 Form, Pour, Strip & Cure Pier Stem (B686) C.7.6.4 1207 Form, Pour, Strip & Cure Pier Cap (B686) C.7.6.4 1208 Perform Existing Bridge Repairs C.7.6.4 1208 Perform Existing Bridge Repairs C.7.6.4 1209 Instal BPIER - (B686) C.7.6.4 1201 Form, Pour, Strip & Cure Pier Cap (B686) C.7.6.4 1206 Form, Pour, Strip & Cure Pier Beam Seat (B686) C.7.6.4 1207 Form, Pour, Strip & Cure Pier Cap (B686) C.7.6.4 1208 Perform Existing Bridge Repairs C.7.6.4 1209 Instal BPIER - (B686) C.7.6.4 1210 Form, Pour, Strip & Cure Pier Cap (B686) C.7.6.4 1211 Instal Alteruator (B686) C.7.6.4 1212 Temporarity Relocate V/DOT Comm Line (B686) C.7.6.4 1213 Saw Cut Deck (B686) C.7.6.4 1214 Demo Deck and Parapet (B686) C.7.6.4 1215 Extend Slope Protection Abt A (B686) C.7.6.4 1216 Extend Slope Protection Abt A (B686) C.7.6.4 1217 Form, Pour, Strip & Cure Backwall Abt B Abutment (B686) C.7.6.4 1229 Install Overhangs (B686) C.7.6.4 1221 Install Deck Curring (B686) C.7.6.4 1225 Demo for Joint Closure (B686) C.7.6.4 122	2d 10	0-21-20 1	10-22-20	C00108424DB92 - 5 day	42d		0/1/0/0/11/2					g Abutment Abt B
C.7.6.4 1190 Form, Pour, Strip & Cure New Abutment Stem Abt B (B686) C.7.6.4 1191 Form, Pour, Strip & Cure Beam Seat Abt B (B686) C.7.6.4 1193 Saw Cut and Demo Existing Approach Slab Abt A (B686) C.7.6.4 1194 Demo Existing Abutment Abt A (B686) C.7.6.4 1195 Install New Foundation Abt A (B686) C.7.6.4 1195 Install New Foundation Abt A (B686) C.7.6.4 1196 Form, Pour, Strip & Cure New Pile Cap Abt A (B686) C.7.6.4 1197 Form, Pour, Strip & Cure New Pile Cap Abt A (B686) C.7.6.4 1198 Form, Pour, Strip & Cure New Pile Cap Abt A (B686) C.7.6.4 1199 Form, Pour, Strip & Cure Beam Seat Abt A (B686) C.7.6.4 1199 Install RT 7 MOT (B686) C.7.6.4 1200 Demo Existing Median Barrier & Attenuator (B686) C.7.6.4 1201 Install RD (B686) C.7.6.4 1202 Excavate for Per (B686) C.7.6.4 1203 Install Per Foundation (B686) C.7.6.4 1204 Form, Pour, Strip & Cure Per Pile Cap (B686) C.7.6.4 1205 Form, Pour, Strip & Cure Per Pile Cap (B686) C.7.6.4 1206 Form, Pour, Strip & Cure Per Pile Cap (B686) C.7.6.4 1206 Form, Pour, Strip & Cure Pier Stem (B686) C.7.6.4 1206 Form, Pour, Strip & Cure Pier Stem (B686) C.7.6.4 1206 Form, Pour, Strip & Cure Pier Beam Seat (B686) C.7.6.4 1207 Form, Pour, Strip & Cure Pier Beam Seat (B686) C.7.6.4 1208 Perform Existing Bridge Repairs C.7.6.4 1209 Install BPPS-1 (B686) C.7.6.4 1210 Reconstruction Barrier Shoulder & Intersection Pavement Strip Rt 7 (B686) C.7.6.4 1211 Install Attenuator (B686) C.7.6.4 1212 Temporarity Relocate VDOT Comm Line (B686) C.7.6.4 1213 Saw Cut Deck (B686) C.7.6.4 1214 Demo Deck and Parapet (B686) C.7.6.4 1215 Extend Stope Protection Abt I (B686) C.7.6.4 1216 Extend Stope Protection Abt I (B686) C.7.6.4 1217 Green Care Strip Relocate VDOT Comm Line (B686) C.7.6.4 1219 Install Deck Form, CB686) C.7.6.4 1219 Install Deck Relocate VDOT Comm Line (B686) C.7.6.4 1219 Install Deck Relocate VDOT Comm Line (B686) C.7.6.4 1219 Install Deck Relocate VDOT Comm Line (B686) C.7.6.4 1221 Form, Pour, Strip & Cure Backwall Abt Abutment (B686) C.7.6.4 1222 Install Deck Relocate VDOT Comm Line (B686) C.7.	10d 10	0-23-20 1	11-05-20	C00108424DB92 - 5 day	42d						Install New	Foundation Abt B
C.7.6.4 1191 Form, Pour, Strip & Cure Beam Seat Abt B (B886) C.7.6.4 1193 Instal SOE Abt A (B886) C.7.6.4 1194 Demo Existing Approach Slab Abt A (B886) C.7.6.4 1195 Instal New Foundation Abt A (B886) C.7.6.4 1196 Form, Pour, Strip & Cure New Pile Cap Abt A (B886) C.7.6.4 1197 Form, Pour, Strip & Cure New Pile Cap Abt A (B886) C.7.6.4 1197 Form, Pour, Strip & Cure New Abutment StemAbt A (B886) C.7.6.4 1198 Form, Pour, Strip & Cure New Abutment StemAbt A (B886) C.7.6.4 1199 Instal Rt 7 MOT (B886) C.7.6.4 1199 Instal Rt 7 MOT (B886) C.7.6.4 1200 Demo Existing Median Barrier & Attenuator (B886) C.7.6.4 1201 Instal SOE (B886) C.7.6.4 1202 Excavate for Pier (B886) C.7.6.4 1202 Excavate for Pier (B886) C.7.6.4 1203 Instal Pier Foundation (B886) C.7.6.4 1204 Form, Pour, Strip & Cure Pier Pile Cap (B886) C.7.6.4 1205 Form, Pour, Strip & Cure Pier Stem (B886) C.7.6.4 1205 Form, Pour, Strip & Cure Pier Stem (B886) C.7.6.4 1206 Form, Pour, Strip & Cure Pier Stem (B886) C.7.6.4 1206 Form, Pour, Strip & Cure Pier Stem (B886) C.7.6.4 1207 Form, Pour, Strip & Cure Pier Cap (B886) C.7.6.4 1208 Perform Existing Bridge Repairs C.7.6.4 1209 Instal BPPS-1 (B886) C.7.6.4 1210 Reconstruction Barrier Shoulder & Intersection Pavement Strip Rt 7 (B886) C.7.6.4 1211 Instal Altenuator (B886) C.7.6.4 1211 Saw Cut Deck (B886) C.7.6.4 1213 Saw Cut Deck (B886) C.7.6.4 1215 Extend Slope Protection Abt 1 (B886) C.7.6.4 1216 Extend Slope Protection Abt 1 (B886) C.7.6.4 1216 Extend Slope Protection Abt 1 (B886) C.7.6.4 1217 Form, Pour, Strip & Cure Beachwall Abt B Abutment (B686) C.7.6.4 1216 Extend Slope Protection Abt A (B886) C.7.6.4 1217 Error Form, Pour, Strip & Cure Beackwall Abt B Abutment (B686) C.7.6.4 1216 Extend Slope Protection Abt A (B886) C.7.6.4 1216 Extend Slope Protection Abt A (B886) C.7.6.4 1217 Error Form, Pour, Strip & Cure Beackwall Abt B Abutment (B686) C.7.6.4 1221 Form, Pour, Strip & Cure Beackwall Abt B Abutment (B686) C.7.6.4 1222 Form, Pour, Strip & Cure Perpenach Slab Abt B Abutment (B686) C.7.6.4 1223 Form, Pour, Str	6d 11	1-06-20 1	11-13-20	C00108424DB92 - 5 day	42d						☐ Farm, Pou	, Strip & Cure Ne
C.7.6.4 1192 Saw Cut and Demo Existing Approach Slab Abt A (B686) C.7.6.4 1193 Install SDE Abt A (B686) C.7.6.4 1195 Install New Foundation Abt A (B686) C.7.6.4 1195 Install New Foundation Abt A (B686) C.7.6.4 1196 Form, Pour, Strip & Cure New Pile CDA Abt A (B686) C.7.6.4 1197 Form, Pour, Strip & Cure New Pile CDA Abt A (B686) C.7.6.4 1198 Form, Pour, Strip & Cure New Pile CDA Abt A (B686) C.7.6.4 1198 Form, Pour, Strip & Cure New Pile CDA Abt A (B686) C.7.6.4 1199 Install R1 7 MOT (B686) C.7.6.4 1200 Demo Existing Median Barrier & Attenuator (B686) C.7.6.4 1201 Install R2 For Foundation (B686) C.7.6.4 1202 Excavate for Piler (B686) C.7.6.4 1203 Install Piler Foundation (B686) C.7.6.4 1204 Form, Pour, Strip & Cure Piler Piler (B686) C.7.6.4 1205 Form, Pour, Strip & Cure Piler Piler (B686) C.7.6.4 1206 Form, Pour, Strip & Cure Piler Piler (B686) C.7.6.4 1207 Form, Pour, Strip & Cure Piler Piler (B686) C.7.6.4 1206 Form, Pour, Strip & Cure Piler Piler (B686) C.7.6.4 1207 Form, Pour, Strip & Cure Piler Beam Seat (B686) C.7.6.4 1209 Install BPPS-1 (B686) C.7.6.4 1209 Install BPPS-1 (B686) C.7.6.4 1210 Reconstruction Barrier Shoulder & Intersection Pavement Strip R1 7 (B686) C.7.6.4 1210 Reconstruction Barrier Shoulder & Intersection Pavement Strip R1 7 (B686) C.7.6.4 1213 Saw Cut Deck (B686) C.7.6.4 1215 Extend Slope Protection Abt B (B686) C.7.6.4 1216 Extend Slope Protection Abt B (B686) C.7.6.4 1216 Extend Slope Protection Abt B (B686) C.7.6.4 1217 Form, Pour, Strip & Cure Backwall Abt A Abutment (B686) C.7.6.4 1218 Install Abtracture (B686) C.7.6.4 1219 Form, Pour, Strip & Cure Backwall Abt A Abutment (B686) C.7.6.4 1216 Extend Slope Protection Abt B (B686) C.7.6.4 1217 Form, Pour, Strip & Cure Backwall Abt A Abutment (B686) C.7.6.4 1221 Form, Pour, Strip & Cure Backwall Abt A Abutment (B686) C.7.6.4 1222 Form, Pour, Strip & Cure Backwall Abt A Abutment (B686) C.7.6.4 1223 Reconstruct Bridge Joint Abt B (B686) C.7.6.4 1226 Joint Closure (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt Abutment (B	6d 11	1-16-20 1	11-23-20	C00108424DB92 - 5 day	42d						☐ Form, Po	ır, Strip & Cure N
C.7.6.4 1193 Install SOE Abt A (B686) C.7.6.4 1195 Install New Foundation Abt A (B686) C.7.6.4 1196 Form, Pour, Strip & Cure New Pile Cap Abt A (B686) C.7.6.4 1196 Form, Pour, Strip & Cure New Pile Cap Abt A (B686) C.7.6.4 1197 Form, Pour, Strip & Cure New Pile Cap Abt A (B686) C.7.6.4 1198 Form, Pour, Strip & Cure New Pile Cap Abt A (B686) C.7.6.4 1199 Install RT / MOT (B686) C.7.6.4 1200 Demo Existing Median Barrier & Altenuator (B686) C.7.6.4 1201 Install SOE (B686) C.7.6.4 1202 Excavate for Pier (B686) C.7.6.4 1202 Excavate for Pier (B686) C.7.6.4 1203 Install Pier Foundation (B686) C.7.6.4 1204 Form, Pour, Strip & Cure Pier Pile Cap (B686) C.7.6.4 1205 Form, Pour, Strip & Cure Pier Pile Cap (B686) C.7.6.4 1206 Form, Pour, Strip & Cure Pier Stem (B686) C.7.6.4 1207 Form, Pour, Strip & Cure Pier Stem (B686) C.7.6.4 1208 Form, Pour, Strip & Cure Pier Stem (B686) C.7.6.4 1209 Form, Pour, Strip & Cure Pier Stem (B686) C.7.6.4 1209 Form, Pour, Strip & Cure Pier Stem (B686) C.7.6.4 1209 Form, Pour, Strip & Cure Pier Stem (B686) C.7.6.4 1209 Form, Pour, Strip & Cure Pier Beam Seat (B686) C.7.6.4 1209 Install Bress (Graphs Form) (B686) C.7.6.4 1210 Reconstruction Barrier Shoulder & Intersection Pavement Strip Rt 7 (B686) C.7.6.4 1211 Install Alternustor (B686) C.7.6.4 1212 Temporarily Relocate VDOT Comm Line (B686) C.7.6.4 1213 Saw Cut Deak (B686) C.7.6.4 1214 Demo Deck and Parapet (B686) C.7.6.4 1215 Extend Stope Protection Abt A (B686) C.7.6.4 1216 Extend Stope Protection Abt A (B686) C.7.6.4 1217 Form, Pour, Strip & Cure Backwall Abt A Abutment (B686) C.7.6.4 1217 Form, Pour, Strip & Cure Backwall Abt B Abutment (B686) C.7.6.4 1219 Install Deck Form (B686) C.7.6.4 1220 Form, Pour, Strip & Cure Backwall Abt A Abutment (B686) C.7.6.4 1221 Form, Pour, Strip & Cure Backwall Abt A Abutment (B686) C.7.6.4 1222 Install Deck Rebar (B686) C.7.6.4 1223 Grow Pour Strip & Cure Approach Slab Abt Abutment (B686) C.7.6.4 1224 Permanently Reinstall VDOT Comm Line (B686) C.7.6.4 1224 Permanently Reinstall VDOT Comm Line (B686)	6d 11	1-24-20 1	12-02-20	C00108424DB92 - 5 day	42d						☐ Form, Po	ur, Strip & Cure I
C.7.6.4 1194 Demo Existing Abutment Abt A (B686) C.7.6.4 1195 Install New Foundation Abt A (B686) C.7.6.4 1196 Form, Pour, Strip & Cure New Pile Cap Abt A (B686) C.7.6.4 1197 Form, Pour, Strip & Cure Beam Seat Abt A (B686) C.7.6.4 1198 Form, Pour, Strip & Cure Beam Seat Abt A (B686) C.7.6.4 1199 Install R7 MOT (B686) C.7.6.4 1200 Demo Existing Median Barrier & Attenuator (B686) C.7.6.4 1201 Install SOE (B686) C.7.6.4 1202 Excavate for Pier (B686) C.7.6.4 1202 Excavate for Pier (B686) C.7.6.4 1203 Install Pier Foundation (B686) C.7.6.4 1204 Form, Pour, Strip & Cure Pier Pier Cap (B686) C.7.6.4 1205 Form, Pour, Strip & Cure Pier Pier Pier Cap (B686) C.7.6.4 1206 Form, Pour, Strip & Cure Pier Stem (B686) C.7.6.4 1206 Form, Pour, Strip & Cure Pier Beam Seat (B686) C.7.6.4 1207 Form, Pour, Strip & Cure Pier Beam Seat (B686) C.7.6.4 1207 Form, Pour, Strip & Cure Pier Beam Seat (B686) C.7.6.4 1207 Form, Pour, Strip & Cure Pier Beam Seat (B686) C.7.6.4 1207 Form, Pour, Strip & Cure Pier Beam Seat (B686) C.7.6.4 1208 Perform Existing Bridge Repairs C.7.6.4 1210 Reconstruction Barrier Shoulder & Intersection Pavement Strip Rt 7 (B686) C.7.6.4 1211 Install Attenuator (B686) C.7.6.4 1212 Temporarily Relocate VDOT Comm Line (B686) C.7.6.4 1213 Saw Cut Deck (B686) C.7.6.4 1214 Demo Deck and Parapet (B686) C.7.6.4 1215 Extend Slope Protection Abt B (B686) C.7.6.4 1216 Extend Slope Protection Abt B (B686) C.7.6.4 1217 Fercel Cirder Line (B686) C.7.6.4 1219 Install Deck Forms (B686) C.7.6.4 1220 Form, Pour, Strip & Cure Backwall Abt A Abutment (B686) C.7.6.4 1221 Ferrec Cirder Line (B686) C.7.6.4 1222 Install Deck Rebar (B686) C.7.6.4 1223 Reconstruct Bridge Joint Abt B (B686) C.7.6.4 1224 Demo for Court Bridge Joint Abt B (B686) C.7.6.4 1225 Demo for Joint Closure (B686) C.7.6.4 1226 Joint Closure (B686) C.7.6.4 1227 Form, Pour, Strip & Cure Backwall Abt Abutment (B686) C.7.6.4 1228 Deck Curing (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Papersoh Slab Abt A Abutment (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Papersoh Slab A	1d 10	0-06-20 1	10-06-20	C00108424DB92 - 5 day	68d						∣ Saw Cut;and [emo Existing Ap
C.7.6.4 1195 Install New Foundation Abt A (B686) C.7.6.4 1196 Form, Pour, Strip & Cure New Pile Cap Abt A (B686) C.7.6.4 1197 Form, Pour, Strip & Cure New Abutment Stem Abt A (B686) C.7.6.4 1198 Form, Pour, Strip & Cure Beam Seat Abt A (B686) C.7.6.4 1199 Install Rt 7 MOT (B686) C.7.6.4 1190 Demo Existing Median Barrier & Attenuator (B686) C.7.6.4 1201 Install SOE (B686) C.7.6.4 1202 Excavate for Pier (B686) C.7.6.4 1203 Install Per Foundation (B686) C.7.6.4 1204 Form, Pour, Strip & Cure Pier Pile Cap (B686) C.7.6.4 1205 Form, Pour, Strip & Cure Pier Pile Cap (B686) C.7.6.4 1206 Form, Pour, Strip & Cure Pier Pile Cap (B686) C.7.6.4 1207 Form, Pour, Strip & Cure Pier Pile Cap (B686) C.7.6.4 1208 Perform Existing Bridge Repairs C.7.6.4 1209 Install Per Soundation (B686) C.7.6.4 1209 Install Sep Pour Strip & Cure Pier Beam Seat (B686) C.7.6.4 1209 Perform Existing Bridge Repairs C.7.6.4 1210 Reconstruction Barrier Shoulder & Intersection Pavement Strip Rt 7 (B686) C.7.6.4 1211 Install Attenuator (B686) C.7.6.4 1211 Temporarity Relocate VDOT Comm Line (B686) C.7.6.4 1213 Saw Cut Deck (B686) C.7.6.4 1215 Extend Slope Protection Abt B (B686) C.7.6.4 1216 Extend Slope Protection Abt B (B686) C.7.6.4 1217 Erect Girder Line (B686) C.7.6.4 1218 Install Overhangs (B686) C.7.6.4 1219 Install Overhangs (B686) C.7.6.4 1219 Install Deck Forms (B686) C.7.6.4 1220 Form, Pour, Strip & Cure Backwall Abt B Abutment (B686) C.7.6.4 1221 Form Pour, Strip & Cure Backwall Abt B Abutment (B686) C.7.6.4 1221 Form Pour, Strip & Cure Backwall Abt A Abutment (B686) C.7.6.4 1222 Install Deck Rebar (B686) C.7.6.4 1223 Reconstruct Bridge Joint Abt B (B686) C.7.6.4 1224 Form, Pour, Strip & Cure Backwall Abt A Abutment (B686) C.7.6.4 1225 Demo for Joint Closure (B686) C.7.6.4 1226 Joint Closure (B686) C.7.6.4 1227 Form, Pour, Strip & Cure Backwall Abt A Abutment (B686) C.7.6.4 1228 Deck Curring (B686) C.7.6.4 1230 Form, Pour, Strip & Cure Packwall Abt Abutment (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Packwall Abt Abutment (B686) C.7.6.4 1231	10d 10	0-07-20	10-20-20	C00108424DB92 - 5 day	68d						■ Install SOEA	ot A (B686)
C.7.6.4 1196 Form, Pour, Strip & Cure New Pile Cap Abt A (B886) C.7.6.4 1197 Form, Pour, Strip & Cure New Abutment Stem Abt A (B686) C.7.6.4 1198 Form, Pour, Strip & Cure New Abutment Stem Abt A (B686) C.7.6.4 1199 Install Rt 7 MOT (B686) C.7.6.4 1200 Demo Existing Median Barrier & Attenuator (B686) C.7.6.4 1201 Install SOE (B686) C.7.6.4 1202 Excavate for Pier (B686) C.7.6.4 1202 Excavate for Pier (B686) C.7.6.4 1203 Install Pier Foundation (B686) C.7.6.4 1204 Form, Pour, Strip & Cure Pier Pile Cap (B686) C.7.6.4 1205 Form, Pour, Strip & Cure Pier Pile Cap (B686) C.7.6.4 1206 Form, Pour, Strip & Cure Pier Stem (B686) C.7.6.4 1207 Form, Pour, Strip & Cure Pier Stem (B686) C.7.6.4 1208 Form, Pour, Strip & Cure Pier Bam Seat (B686) C.7.6.4 1209 Install BPPS-1 (B686) C.7.6.4 1210 Reconstruction Barrier Shoulder & Intersection Pavement Strip Rt 7 (B686) C.7.6.4 1211 Install Attenuator (B686) C.7.6.4 1212 Temporarity Relocate VDOT Comm Line (B686) C.7.6.4 1213 Saw Cut Deck (B686) C.7.6.4 1214 Demo Deck and Parapet (B686) C.7.6.4 1215 Extend Slope Protection Abt A (B686) C.7.6.4 1216 Extend Slope Protection Abt A (B686) C.7.6.4 1217 Erect Girder Line (B686) C.7.6.4 1218 Install Deck Forms (B686) C.7.6.4 1219 Install Deck Rome (B686) C.7.6.4 1219 Ferct Girder Line (B686) C.7.6.4 1219 Install Deck Rome (B686) C.7.6.4 1221 Ferct Girder Line (B686) C.7.6.4 1221 Ferct Girder Line (B686) C.7.6.4 1222 Form, Pour, Strip & Cure Backwall Abt A Abutment (B686) C.7.6.4 1222 Form, Pour, Strip & Cure Backwall Abt A Abutment (B686) C.7.6.4 1222 Form, Pour, Strip & Cure Backwall Abt A Abutment (B686) C.7.6.4 1225 Demo for Joint Closure (B686) C.7.6.4 1226 Demo for Joint Closure (B686) C.7.6.4 1227 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1228 Deck Curing (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1233 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 123	2d 10	0-21-20 1	10-22-20	C00108424DB92 - 5 day	68d							g Abutment Abt
C.7.6.4 1197 Form, Pour, Strip & Cure New Abutment Stem Abt A (B886) C.7.6.4 1198 Form, Pour, Strip & Cure Beam Seat Abt A (B886) C.7.6.4 1200 Demo Existing Median Barrier & Attenuator (B686) C.7.6.4 1201 Install SOE (B686) C.7.6.4 1202 Excavate for Pier (B686) C.7.6.4 1203 Install Pier Foundation (B686) C.7.6.4 1203 Install Pier Foundation (B686) C.7.6.4 1204 Form, Pour, Strip & Cure Pier Pile Cap (B686) C.7.6.4 1205 Form, Pour, Strip & Cure Pier Pile Cap (B686) C.7.6.4 1206 Form, Pour, Strip & Cure Pier Stem (B686) C.7.6.4 1206 Form, Pour, Strip & Cure Pier Beam Seat (B686) C.7.6.4 1207 Form, Pour, Strip & Cure Pier Beam Seat (B686) C.7.6.4 1208 Perform Existing Bridge Repairs C.7.6.4 1209 Install BPPS-1 (B686) C.7.6.4 1210 Reconstruction Barrier Shoulder & Intersection Pavement Strip Rt 7 (B686) C.7.6.4 1211 Install Attenuator (B686) C.7.6.4 1212 Temporarily Relocate VDOT Comm Line (B686) C.7.6.4 1213 Saw Cut Deck (B686) C.7.6.4 1214 Demo Deck and Parapet (B686) C.7.6.4 1215 Extend Slope Protection Abt B (B686) C.7.6.4 1216 Extend Slope Protection Abt B (B686) C.7.6.4 1217 Fierd Girder Line (B686) C.7.6.4 1218 Install Deck Forms (B686) C.7.6.4 1219 Install Deck Forms (B686) C.7.6.4 1220 Form, Pour, Strip & Cure Backwall Abt B Abutment (B686) C.7.6.4 1221 Form, Pour, Strip & Cure Backwall Abt B Abutment (B686) C.7.6.4 1222 Install Deck Rebar (B686) C.7.6.4 1223 Reconstruct Bridge Joint Abt B (B686) C.7.6.4 1222 Form, Pour, Strip & Cure Backwall Abt A Abutment (B686) C.7.6.4 1222 Form, Pour, Strip & Cure Backwall Abt B Abutment (B686) C.7.6.4 1222 Form, Pour, Strip & Cure Backwall Abt B Abutment (B686) C.7.6.4 1223 Reconstruct Bridge Joint Abt A (B686) C.7.6.4 1224 Reconstruct Bridge Joint Abt A (B686) C.7.6.4 1225 Demo for Joint Closure (B686) C.7.6.4 1226 Joint Closure Pour (B686) C.7.6.4 1227 Pour Deck (B686) C.7.6.4 1228 Deck Curing (B686) C.7.6.4 1230 Groove Widened Deck (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1231 Form, Pour	10d 10	0-23-20 1	11-05-20	C00108424DB92 - 5 day	68d							Foundation Abt A
C.7.6.4 1198 Form, Pour, Strip & Cure Beam Seat Abt A (B686) C.7.6.4 1190 Demo Existing Median Barrier & Attenuator (B686) C.7.6.4 1201 Instal SOE (B686) C.7.6.4 1202 Excavate for Pier (B686) C.7.6.4 1202 Excavate for Pier (B686) C.7.6.4 1203 Instal Pier Foundation (B686) C.7.6.4 1204 Form, Pour, Strip & Cure Pier Pie Cap (B686) C.7.6.4 1205 Form, Pour, Strip & Cure Pier Pie Cap (B686) C.7.6.4 1206 Form, Pour, Strip & Cure Pier Stem (B686) C.7.6.4 1207 Form, Pour, Strip & Cure Pier Stem (B686) C.7.6.4 1208 Perform Existing Bridge Repairs C.7.6.4 1209 Instal BPPS-1 (B686) C.7.6.4 1210 Reconstruction Barrier Shoulder & Intersection Pavement Strip Rt 7 (B686) C.7.6.4 1211 Instal Attenuator (B686) C.7.6.4 1212 Temporarity Relocate VDOT Comm Line (B686) C.7.6.4 1213 Saw Cut Deck (B686) C.7.6.4 1214 Demo Deck and Parapet (B686) C.7.6.4 1215 Extend Slope Protection Abt B (B686) C.7.6.4 1216 Extend Slope Protection Abt B (B686) C.7.6.4 1217 First Girder Line (B686) C.7.6.4 1218 Instal Deck Forms (B686) C.7.6.4 1219 Instal Deck Forms (B686) C.7.6.4 1219 Instal Deverhangs (B686) C.7.6.4 1219 Instal Deverhangs (B686) C.7.6.4 1220 Form, Pour, Strip & Cure Backwall Abt B Abutment (B686) C.7.6.4 1219 Instal Deck Forms (B686) C.7.6.4 1221 Form, Pour, Strip & Cure Backwall Abt B Abutment (B686) C.7.6.4 1221 Form, Pour, Strip & Cure Backwall Abt A Abutment (B686) C.7.6.4 1221 Form, Pour, Strip & Cure Backwall Abt A Abutment (B686) C.7.6.4 1222 Instal Deck Forms (B686) C.7.6.4 1223 Form, Pour, Strip & Cure Backwall Abt A Abutment (B686) C.7.6.4 1224 Reconstruct Bridge Joint Abt B (B686) C.7.6.4 1225 Demo for Joint Closure (B686) C.7.6.4 1226 Form, Pour, Strip & Cure Backwall Abt A Abutment (B686) C.7.6.4 1227 Pour Deck (B686) C.7.6.4 1228 Deck Curing (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1230 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1234 Permanently Reinstal VOOT Comm	6d 11	1-06-20 1	11-13-20	C00108424DB92 - 5 day	68d		 			-1-1-1-1-1-1		, Strip & Cure N
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C.7.6.4 1201 Install SOE (B686) C.7.6.4 1202 Excavate for Pier (B686) C.7.6.4 1203 Install Pier Foundation (B686) C.7.6.4 1204 Form, Pour, Strip & Cure Pier Pie Cap (B686) C.7.6.4 1205 Form, Pour, Strip & Cure Pier Pier Cap (B686) C.7.6.4 1206 Form, Pour, Strip & Cure Pier Stem (B686) C.7.6.4 1207 Form, Pour, Strip & Cure Pier Beam Seat (B686) C.7.6.4 1208 Perform Existing Bridge Repairs C.7.6.4 1209 Install BPPS-1 (B686) C.7.6.4 1210 Reconstruction Barrier Shoulder & Intersection Pavement Strip Rt 7 (B686) C.7.6.4 1211 Install Attenuator (B686) C.7.6.4 1212 Temporarily Relocate VDOT Comm Line (B686) C.7.6.4 1213 Saw Cut Deck (B686) C.7.6.4 1214 Demo Deck and Parapet (B686) C.7.6.4 1215 Extend Slope Protection Abt 8 (B686) C.7.6.4 1216 Extend Slope Protection Abt 8 (B686) C.7.6.4 1217 Erect Girder Line (B686) C.7.6.4 1218 Install Deck Forms (B686) C.7.6.4 1219 Install Overhangs (B686) C.7.6.4 1220 Form, Pour, Strip & Cure Backwall Abt B Abutment (B686) C.7.6.4 1221 Install Deck Rebrangs (B686) C.7.6.4 1222 Reconstruct Bridge Joint Abt B (B686) C.7.6.4 1221 Form, Pour, Strip & Cure Backwall Abt B Abutment (B686) C.7.6.4 1222 Install Deck Rebar (B686) C.7.6.4 1223 Reconstruct Bridge Joint Abt B (B686) C.7.6.4 1224 Reconstruct Bridge Joint Abt B (B686) C.7.6.4 1225 Form, Pour, Strip & Cure Backwall Abt B Abutment (B686) C.7.6.4 1226 Joint Closure (B686) C.7.6.4 1227 Pour Deck (B686) C.7.6.4 1228 Form, Pour, Strip & Cure Backwall Abt B Abutment (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1230 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1232 Perform, Pour, Strip & Cure Parapet (B686) C.7.6.4 1233 Groove Widened Deck (B686) C.			10-07-20	C00108424DB92 - 5 day	0d						I Install Rt 7 MC	
C.7.6.4 1202 Excavate for Pier (B686) C.7.6.4 1203 Install Pier Foundation (B686) C.7.6.4 1204 Form, Pour, Strip & Cure Pier Pile Cap (B686) C.7.6.4 1205 Form, Pour, Strip & Cure Pier Stem (B686) C.7.6.4 1206 Form, Pour, Strip & Cure Pier Stem (B686) C.7.6.4 1207 Form, Pour, Strip & Cure Pier Cap (B686) C.7.6.4 1208 Perform Existing Bridge Repairs C.7.6.4 1209 Install BPPS-1 (B686) C.7.6.4 1210 Reconstruction Barrier Shoulder & Intersection Pavement Strip Rt 7 (B686) C.7.6.4 1211 Install Attenuator (B686) C.7.6.4 1211 Install Attenuator (B686) C.7.6.4 1212 Temporarily Relocate VDOT Comm Line (B686) C.7.6.4 1213 Saw Cut Deck (B686) C.7.6.4 1214 Demo Deck and Parapet (B686) C.7.6.4 1215 Extend Slope Protection Abt 8 (B686) C.7.6.4 1216 Extend Slope Protection Abt 8 (B686) C.7.6.4 1217 Erect Girder Line (B686) C.7.6.4 1218 Install Deck Forms (B686) C.7.6.4 1220 Form, Pour, Strip & Cure Backwall Abt B Abutment (B686) C.7.6.4 1221 Install Deck Rebrangs (B686) C.7.6.4 1221 Form, Pour, Strip & Cure Backwall Abt A Abutment (B686) C.7.6.4 1221 Form, Pour, Strip & Cure Backwall Abt A Abutment (B686) C.7.6.4 1222 Reconstruct Bridge Joint Abt B (B686) C.7.6.4 1223 Reconstruct Bridge Joint Abt B (B686) C.7.6.4 1224 Reconstruct Bridge Joint Abt B (B686) C.7.6.4 1225 Demo for Joint Closure (B686) C.7.6.4 1226 Joint Closure Pour (B686) C.7.6.4 1227 Pour Deck (B686) C.7.6.4 1228 Deck Curing (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1226 Joint Closure Pour (B686) C.7.6.4 1227 Pour Deck (B686) C.7.6.4 1228 Deck Curing (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1233 Groove Widened Deck (B686) C.7.6.4 1234 Permanently Reinstall VDOT Comm Line (B686) C.7.6.4 1234 Permanently Reinstall VDOT Comm Line (B686)			10-12-20	C00108424DB92 - 5 day	0d						■ Demo Existino	
C.7.6.4 1203 Install Pier Foundation (B686) C.7.6.4 1204 Form, Pour, Strip & Cure Pier Pile Cap (B686) C.7.6.4 1205 Form, Pour, Strip & Cure Pier Pile Cap (B686) C.7.6.4 1206 Form, Pour, Strip & Cure Pier Stem (B686) C.7.6.4 1207 Form, Pour, Strip & Cure Pier Stem (B686) C.7.6.4 1208 Perform Existing Bridge Repairs C.7.6.4 1209 Install BPPS-1 (B686) C.7.6.4 1210 Reconstruction Barrier Shoulder & Intersection Pavement Strip Rt 7 (B686) C.7.6.4 1211 Install Attenuator (B686) C.7.6.4 1212 Temporarily Relocate VDOT Comm Line (B686) C.7.6.4 1213 Saw Cut Deck (B686) C.7.6.4 1214 Demo Deck and Parapet (B686) C.7.6.4 1215 Extend Slope Protection Abt A (B686) C.7.6.4 1216 Extend Slope Protection Abt A (B686) C.7.6.4 1217 Ferct Girder Line (B686) C.7.6.4 1218 Install Deck Forms (B686) C.7.6.4 1219 Install Overhangs (B686) C.7.6.4 1219 Install Overhangs (B686) C.7.6.4 1220 Form, Pour, Strip & Cure Backwall Abt B Abutment (B686) C.7.6.4 1221 Form, Pour, Strip & Cure Backwall Abt A Abutment (B686) C.7.6.4 1221 Reconstruct Bridge Joint Abt A (B686) C.7.6.4 1222 Install Deck Rebar (B686) C.7.6.4 1223 Reconstruct Bridge Joint Abt A (B686) C.7.6.4 1225 Demo for Joint Closure (B686) C.7.6.4 1226 Joint Closure (B686) C.7.6.4 1227 Pour Deck (B686) C.7.6.4 1228 Deck Curing (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Backwall Abt B Abutment (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Backwall Abt B Abutment (B686) C.7.6.4 1225 Demo for Joint Closure (B686) C.7.6.4 1226 Joint Closure (B686) C.7.6.4 1227 Pour Deck (B686) C.7.6.4 1228 Deck Curing (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt A Abutment (B686) C.7.6.4 1230 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Approach Slab Abt A Abutment (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Approach Slab Abt A Abutment (B686) C.7.6.4 1233 Groove Widelend Deck (B686) C.7.6.4 1233 Groove Widelend Deck (B686)			10-26-20	C00108424DB92 - 5 day	0d		 				Install SOE	fkfl4k-
C.7.6.4 1204 Form, Pour, Strip & Cure Pier Pile Cap (B686) C.7.6.4 1205 Form, Pour, Strip & Cure Pier Stem (B686) C.7.6.4 1206 Form, Pour, Strip & Cure Pier Stem (B686) C.7.6.4 1207 Form, Pour, Strip & Cure Pier Cap (B686) C.7.6.4 1208 Perform Existing Bridge Repairs C.7.6.4 1209 Install BPPS-1 (B686) C.7.6.4 1210 Reconstruction Barrier Shoulder & Intersection Pavement Strip Rt 7 (B686) C.7.6.4 1211 Install Attenuator (B686) C.7.6.4 1211 Temporarily Relocate VDOT Comm Line (B686) C.7.6.4 1213 Saw Cut Deck (B686) C.7.6.4 1214 Demo Deck and Parapet (B686) C.7.6.4 1215 Extend Slope Protection Abt B (B686) C.7.6.4 1215 Extend Slope Protection Abt B (B686) C.7.6.4 1216 Extend Slope Protection Abt A (B686) C.7.6.4 1217 Erect Girder Line (B686) C.7.6.4 1218 Install Deck Forms (B686) C.7.6.4 1219 Install Overhangs (B686) C.7.6.4 1220 Form, Pour, Strip & Cure Backwall Abt B Abutment (B686) C.7.6.4 1221 Form, Pour, Strip & Cure Backwall Abt A Abutment (B686) C.7.6.4 1222 Install Deck Rebar (B686) C.7.6.4 1223 Reconstruct Bridge Joint Abt B (B686) C.7.6.4 1224 Reconstruct Bridge Joint Abt A (B686) C.7.6.4 1225 Demo for Joint Closure (B686) C.7.6.4 1226 Joint Closure Pour (B686) C.7.6.4 1227 Pour Deck (B686) C.7.6.4 1228 Deck Curing (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1228 Deck Curing (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1230 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1233 Groove Widened Deck (B686) C.7.6.4 1234 Permanently Reinstall VDOT Comm Line (B686)			10-28-20	C00108424DB92 - 5 day	0d						Excavate for	
C.7.6.4 1205 Form, Pour, Strip & Cure Pier Stem (B686) C.7.6.4 1206 Form, Pour, Strip & Cure Pier Cap (B686) C.7.6.4 1207 Form, Pour, Strip & Cure Pier Cap (B686) C.7.6.4 1208 Perform Existing Bridge Repairs C.7.6.4 1209 Install BPPS-1 (B686) C.7.6.4 1210 Reconstruction Barrier Shoulder & Intersection Pavement Strip Rt 7 (B686) C.7.6.4 1211 Install Attenuator (B686) C.7.6.4 1212 Temporarily Relocate VDOT Comm Line (B686) C.7.6.4 1213 Saw Cut Deck (B686) C.7.6.4 1214 Demo Deck and Parapet (B686) C.7.6.4 1215 Extend Slope Protection Abt B (B686) C.7.6.4 1216 Extend Slope Protection Abt B (B686) C.7.6.4 1217 Erect Girder Line (B686) C.7.6.4 1218 Install Deck Forms (B686) C.7.6.4 1219 Install Overhangs (B686) C.7.6.4 1220 Form, Pour, Strip & Cure Backwall Abt B Abutment (B686) C.7.6.4 1221 Form, Pour, Strip & Cure Backwall Abt Abutment (B686) C.7.6.4 1222 Install Deck Rebar (B686) C.7.6.4 1223 Reconstruct Bridge Joint Abt A (B686) C.7.6.4 1224 Reconstruct Bridge Joint Abt A (B686) C.7.6.4 1225 Demo for Joint Closure (B686) C.7.6.4 1226 Joint Closure (B686) C.7.6.4 1227 Pour Deck (B686) C.7.6.4 1228 Deck (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Backwall Abt B Abutment (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Backwall Abt B Abutment (B686) C.7.6.4 1229 Form (B686) C.7.6.4 1229 Form (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Backwall Abt A Abutment (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1230 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1233 Groove Widened Deck (B686) C.7.6.4 1234 Permanently Reinstall VDOT Comm Line (B686) C.7.6.4 1234 Permanently Reinstall VDOT Comm Line (B686)			11-11-20	C00108424DB92 - 5 day	0d							Foundation (B68
C.7.6.4 1206 Form, Pour, Strip & Cure Pier Cap (B686) C.7.6.4 1207 Form, Pour, Strip & Cure Pier Beam Seat (B686) C.7.6.4 1208 Perform Existing Bridge Repairs C.7.6.4 1209 Install BPPS-1 (B686) C.7.6.4 1210 Reconstruction Barrier Shoulder & Intersection Pavement Strip Rt 7 (B686) C.7.6.4 1211 Install Attenuator (B686) C.7.6.4 1212 Temporarily Relocate VDOT Comm Line (B686) C.7.6.4 1213 Saw Cut Deck (B686) C.7.6.4 1214 Demo Deck and Parapet (B686) C.7.6.4 1215 Extend Slope Protection Abt B (B686) C.7.6.4 1216 Extend Slope Protection Abt B (B686) C.7.6.4 1217 Erect Girder Line (B686) C.7.6.4 1218 Install Deck Forms (B686) C.7.6.4 1219 Install Deck Forms (B686) C.7.6.4 1219 Install Deck Forms (B686) C.7.6.4 1220 Form, Pour, Strip & Cure Backwall Abt B Abutment (B686) C.7.6.4 1221 Form, Pour, Strip & Cure Backwall Abt A Abutment (B686) C.7.6.4 1222 Install Deck Rebar (B686) C.7.6.4 1223 Reconstruct Bridge Joint Abt B (B686) C.7.6.4 1224 Reconstruct Bridge Joint Abt B (B686) C.7.6.4 1225 Demo for Joint Closure (B686) C.7.6.4 1226 Joint Closure (B686) C.7.6.4 1227 Pour Deck (B686) C.7.6.4 1228 Deck Curing (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt Abutment (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt Abutment (B686) C.7.6.4 1228 Deck Curing (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt Abutment (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Approach Slab Abt Abutment (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Approach Slab Abt Abutment (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Approach Slab Abt Abutment (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Approach Slab Abt Abutment (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686)			11-19-20	C00108424DB92 - 5 day	0d							r, Strip & Cure F
C.7.6.4 1207 Form, Pour, Strip & Cure Pier Beam Seat (B686) C.7.6.4 1208 Perform Existing Bridge Repairs C.7.6.4 1209 Install BPPS-1 (B686) C.7.6.4 1210 Reconstruction Barrier Shoulder & Intersection Pavement Strip Rt 7 (B686) C.7.6.4 1211 Install Attenuator (B686) C.7.6.4 1212 Temporarily Relocate VDOT Comm Line (B686) C.7.6.4 1213 Saw Cut Deck (B686) C.7.6.4 1214 Demo Deck and Parapet (B686) C.7.6.4 1215 Extend Slope Protection Abt B (B686) C.7.6.4 1216 Extend Slope Protection Abt A (B686) C.7.6.4 1217 Erect Girder Line (B686) C.7.6.4 1218 Install Deck Forms (B686) C.7.6.4 1219 Install Overhangs (B686) C.7.6.4 1220 Form, Pour, Strip & Cure Backwall Abt B Abutment (B686) C.7.6.4 1221 Form, Pour, Strip & Cure Backwall Abt A Abutment (B686) C.7.6.4 1222 Install Deck Rebar (B686) C.7.6.4 1223 Reconstruct Bridge Joint Abt A (B686) C.7.6.4 1224 Reconstruct Bridge Joint Abt A (B686) C.7.6.4 1226 Demo for Joint Closure (B686) C.7.6.4 1227 Pour Deck (B686) C.7.6.4 1228 Deck Curing (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1226 Demo for Joint Closure (B686) C.7.6.4 1227 Pour Deck (B686) C.7.6.4 1228 Deck Curing (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1228 Deck Curing (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1228 Deck Curing (B686) C.7.6.4 1230 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Approach Slab Abt A Abutment (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Approach Slab Abt A Abutment (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686)			11-30-20	C00108424DB92 - Bridge	0d							ur, Strip & Cure
C.7.6.4 1208 Perform Existing Bridge Repairs C.7.6.4 1209 Install BPPS-1 (B686) C.7.6.4 1210 Reconstruction Barrier Shoulder & Intersection Pavement Strip Rt 7 (B686) C.7.6.4 1211 Install Attenuator (B686) C.7.6.4 1212 Temporarily Relocate VDOT Comm Line (B686) C.7.6.4 1213 Saw Cut Deck (B686) C.7.6.4 1214 Demo Deck and Parapet (B686) C.7.6.4 1215 Extend Slope Protection Abt B (B686) C.7.6.4 1216 Extend Slope Protection Abt B (B686) C.7.6.4 1217 Erect Girder Line (B686) C.7.6.4 1218 Install Deck Forms (B686) C.7.6.4 1219 Install Overhangs (B686) C.7.6.4 1220 Form, Pour, Strip & Cure Backwall Abt B Abutment (B686) C.7.6.4 1221 Form Pour, Strip & Cure Backwall Abt Abutment (B686) C.7.6.4 1222 Install Deck Rebar (B686) C.7.6.4 1223 Reconstruct Bridge Joint Abt B (B686) C.7.6.4 1224 Reconstruct Bridge Joint Abt A (B686) C.7.6.4 1225 Demo for Joint Closure (B686) C.7.6.4 1226 Joint Closure Pour (B686) C.7.6.4 1227 Pour Deck (B686) C.7.6.4 1228 Deck Curing (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Approach Slab Abt AAbutment (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Approach Slab Abt AAbutment (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Approach Slab Abt AAbutment (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1233 Groove Widened Deck (B686) C.7.6.4 1234 Permanently Reinstall VDOT Comm Line (B686)			12-08-20	C00108424DB92 - Bridge	0d		 					bur, Strip & Cure
C.7.6.4 1209 Install BPPS-1 (B686) C.7.6.4 1210 Reconstruction Barrier Shoulder & Intersection Pavement Strip Rt 7 (B686) C.7.6.4 1211 Install Attenuator (B686) C.7.6.4 1212 Temporarily Relocate VDOT Comm Line (B686) C.7.6.4 1213 Saw Cut Deck (B686) C.7.6.4 1214 Demo Deck and Parapet (B686) C.7.6.4 1215 Extend Slope Protection Abt B (B686) C.7.6.4 1216 Extend Slope Protection Abt B (B686) C.7.6.4 1216 Extend Slope Protection Abt A (B686) C.7.6.4 1217 Erect Girder Line (B686) C.7.6.4 1218 Install Deck Forms (B686) C.7.6.4 1219 Install Overhangs (B686) C.7.6.4 1220 Form, Pour, Strip & Cure Backwall Abt B Abutment (B686) C.7.6.4 1221 Form, Pour, Strip & Cure Backwall Abt Abutment (B686) C.7.6.4 1222 Install Deck Rebar (B686) C.7.6.4 1223 Reconstruct Bridge Joint Abt B (B686) C.7.6.4 1225 Demo for Joint Closure (B686) C.7.6.4 1226 Joint Closure (B686) C.7.6.4 1227 Pour Deck (B686) C.7.6.4 1228 Deck Curing (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1230 Form, Pour, Strip & Cure Approach Slab Abt Abutment (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686)			02-17-21	C00108424DB92 - Bridge	0d							orm, Pour, Strip
C.7.6.4 1210 Reconstruction Barrier Shoulder & Intersection Pavement Strip Rt 7 (B686) C.7.6.4 1211 Install Attenuator (B686) C.7.6.4 1212 Temporarily Relocate VDOT Comm Line (B686) C.7.6.4 1213 Saw Cut Deck (B686) C.7.6.4 1214 Demo Deck and Parapet (B686) C.7.6.4 1215 Extend Slope Protection Abt B (B686) C.7.6.4 1216 Extend Slope Protection Abt A (B686) C.7.6.4 1217 Erect Girder Line (B686) C.7.6.4 1218 Install Deck Forms (B686) C.7.6.4 1219 Install Overhangs (B686) C.7.6.4 1220 Form, Pour, Strip & Cure Backwall Abt B Abutment (B686) C.7.6.4 1221 Form, Pour, Strip & Cure Backwall Abt A Abutment (B686) C.7.6.4 1222 Install Deck Rebar (B686) C.7.6.4 1223 Reconstruct Bridge Joint Abt B (B686) C.7.6.4 1224 Reconstruct Bridge Joint Abt A (B686) C.7.6.4 1225 Demo for Joint Closure (B686) C.7.6.4 1226 Joint Closure (B686) C.7.6.4 1227 Pour Deck (B686) C.7.6.4 1228 Deck Curing (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt Abutment (B686) C.7.6.4 1230 Form, Pour, Strip & Cure Approach Slab Abt Abutment (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Approach Slab Abt Abutment (B686) C.7.6.4 1232 Strip Overhangs (B686) C.7.6.4 1233 Groove Widened Deck (B686) C.7.6.4 1234 Permanently Reinstall VDOT Comm Line (B686) C.7.6.4 1234 Permanently Reinstall VDOT Comm Line (B686)			11-11-20	C00108424DB92 - Bridge	138d						Perform Ex	
C.7.6.4 1211 Install Attenuator (B686) C.7.6.4 1212 Temporarily Relocate VDOT Comm Line (B686) C.7.6.4 1213 Saw Cut Deck (B686) C.7.6.4 1214 Demo Deck and Parapet (B686) C.7.6.4 1215 Extend Slope Protection Abt B (B686) C.7.6.4 1216 Extend Slope Protection Abt A (B686) C.7.6.4 1217 Erect Girder Line (B686) C.7.6.4 1218 Install Deck Forms (B686) C.7.6.4 1219 Install Overhangs (B686) C.7.6.4 1220 Form, Pour, Strip & Cure Backwall Abt B Abutment (B686) C.7.6.4 1221 Form, Pour, Strip & Cure Backwall Abt A Abutment (B686) C.7.6.4 1222 Install Deck Rebar (B686) C.7.6.4 1222 Install Deck Rebar (B686) C.7.6.4 1223 Reconstruct Bridge Joint Abt B (B686) C.7.6.4 1224 Reconstruct Bridge Joint Abt B (B686) C.7.6.4 1225 Demo for Joint Closure (B686) C.7.6.4 1226 Joint Closure (B686) C.7.6.4 1227 Pour Deck (B686) C.7.6.4 1228 Deck Curing (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt Abutment (B686) C.7.6.4 1230 Form, Pour, Strip & Cure Approach Slab Abt Abutment (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Approach Slab Abt Abutment (B686) C.7.6.4 1232 Strip Overhangs (B686) C.7.6.4 1233 Groove Widened Deck (B686) C.7.6.4 1234 Permanently Reinstall VDOT Comm Line (B686) C.7.6.4 1234 Permanently Reinstall VDOT Comm Line (B686)			03-01-21	C00108424DB92 - 5 day	94d							nstall BPPS-1 (B Reconstruction
C.7.6.4 1212 Temporarily Relocate VDOT Comm Line (B686) C.7.6.4 1213 Saw Cut Deck (B686) C.7.6.4 1214 Demo Deck and Parapet (B686) C.7.6.4 1215 Extend Slope Protection Abt B (B686) C.7.6.4 1216 Extend Slope Protection Abt B (B686) C.7.6.4 1217 Erect Girder Line (B686) C.7.6.4 1218 Install Deck Forms (B686) C.7.6.4 1219 Install Overhangs (B686) C.7.6.4 1220 Form, Pour, Strip & Cure Backwall Abt B Abutment (B686) C.7.6.4 1221 Form, Pour, Strip & Cure Backwall Abt Abutment (B686) C.7.6.4 1222 Install Deck Rebar (B686) C.7.6.4 1223 Reconstruct Bridge Joint Abt B (B686) C.7.6.4 1224 Reconstruct Bridge Joint Abt Abt (B686) C.7.6.4 1225 Demo for Joint Closure (B686) C.7.6.4 1226 Joint Closure (B686) C.7.6.4 1227 Pour Deck (B686) C.7.6.4 1228 Deck Curing (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt Abutment (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt Abutment (B686) C.7.6.4 1230 Form, Pour, Strip & Cure Approach Slab Abt Abutment (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1232 Strip Overhangs (B686) C.7.6.4 1233 Groove Widened Deck (B686) C.7.6.4 1234 Permanently Reinstall VDOT Comm Line (B686) C.7.6.4 1234 Permanently Reinstall VDOT Comm Line (B686)			03-23-21	C00108424DB92 - Paving	84d						· · · · · · · · · · · · · · · · · · ·	Install Attenuate
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C.7.6.4 1214 Demo Deck and Parapet (B686) C.7.6.4 1215 Extend Slope Protection Abt B (B686) C.7.6.4 1216 Extend Slope Protection Abt A (B686) C.7.6.4 1217 Erect Girder Line (B686) C.7.6.4 1218 Install Deck Forms (B686) C.7.6.4 1219 Install Overhangs (B686) C.7.6.4 1220 Form, Pour, Strip & Cure Backwall Abt B Abutment (B686) C.7.6.4 1221 Form, Pour, Strip & Cure Backwall Abt A Abutment (B686) C.7.6.4 1222 Install Deck Rebar (B686) C.7.6.4 1223 Reconstruct Bridge Joint Abt B (B686) C.7.6.4 1224 Reconstruct Bridge Joint Abt A (B686) C.7.6.4 1225 Demo for Joint Closure (B686) C.7.6.4 1226 Joint Closure (B686) C.7.6.4 1227 Pour Deck (B686) C.7.6.4 1228 Deck Curing (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1230 Form, Pour, Strip & Cure Approach Slab Abt Abutment (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1233 Groove Widened Deck (B686) C.7.6.4 1234 Permanently Reinstall VDOT Comm Line (B686) C.7.6.4 1234 Permanently Reinstall VDOT Comm Line (B686)			02-24-21	C00108424DB92 - 5 day	0d 0d							aw Cut Deck (E
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C.7.6.4 1218 Install Deck Forms (B686) C.7.6.4 1219 Install Overhangs (B686) C.7.6.4 1220 Form, Pour, Strip & Cure Backwall Abt B Abutment (B686) C.7.6.4 1221 Form, Pour, Strip & Cure Backwall Abt Abutment (B686) C.7.6.4 1222 Install Deck Rebar (B686) C.7.6.4 1223 Reconstruct Bridge Joint Abt B (B686) C.7.6.4 1224 Reconstruct Bridge Joint Abt A (B686) C.7.6.4 1225 Demo for Joint Closure (B686) C.7.6.4 1226 Joint Closure (B686) C.7.6.4 1227 Pour Deck (B686) C.7.6.4 1227 Pour Deck (B686) C.7.6.4 1228 Deck Curing (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1230 Form, Pour, Strip & Cure Approach Slab Abt AAbutment (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1232 Strip Overhangs (B686) C.7.6.4 1233 Groove Widened Deck (B686) C.7.6.4 1234 Permanently Reinstall VDOT Comm Line (B686) C.7.6.4 1234 Permanently Reinstall VDOT Comm Line (B686)			03-16-21	C00108424DB92 - 5 day	0d		 					Erect Girder Lir
C.7.6.4 1219 Install Overhangs (B686) C.7.6.4 1220 Form, Pour, Strip & Cure Backwall Abt B Abutment (B686) C.7.6.4 1221 Form, Pour, Strip & Cure Backwall Abt A Abutment (B686) C.7.6.4 1222 Install Deck Rebar (B686) C.7.6.4 1223 Reconstruct Bridge Joint Abt B (B686) C.7.6.4 1224 Reconstruct Bridge Joint Abt A (B686) C.7.6.4 1225 Demo for Joint Closure (B686) C.7.6.4 1226 Joint Closure Pour (B686) C.7.6.4 1227 Pour Deck (B686) C.7.6.4 1228 Deck Curing (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1230 Form, Pour, Strip & Cure Approach Slab Abt AAbutment (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1232 Strip Overhangs (B686) C.7.6.4 1233 Groove Widened Deck (B686) C.7.6.4 1234 Permanentty Reinstall VDOT Comm Line (B686)			03-23-21	C00108424DB92 - 5 day	0d							Install Deck Fo
C.7.6.4 1220 Form, Pour, Strip & Cure Backwall Abt B Abutment (B686) C.7.6.4 1221 Form, Pour, Strip & Cure Backwall Abt A Abutment (B686) C.7.6.4 1222 Install Deck Rebar (B686) C.7.6.4 1223 Reconstruct Bridge Joint Abt B (B686) C.7.6.4 1224 Reconstruct Bridge Joint Abt A (B686) C.7.6.4 1225 Demo for Joint Closure (B686) C.7.6.4 1226 Joint Closure (B686) C.7.6.4 1227 Pour Deck (B686) C.7.6.4 1228 Deck Curing (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1230 Form, Pour, Strip & Cure Approach Slab Abt Abutment (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1232 Strip Overhangs (B686) C.7.6.4 1233 Groove Widened Deck (B686) C.7.6.4 1234 Permanentty Reinstall VDOT Comm Line (B686) C.7.6.4 1234 Permanentty Reinstall VDOT Comm Line (B686)			03-31-21	C00108424DB92 - 5 day	0d							Install Overha
C.7.6.4 1221 Form, Pour, Strip & Cure Backwall Abt A Abutment (B686) C.7.6.4 1222 Install Deck Rebar (B686) C.7.6.4 1223 Reconstruct Bridge Joint Abt B (B686) C.7.6.4 1224 Reconstruct Bridge Joint Abt A (B686) C.7.6.4 1225 Demo for Joint Closure (B686) C.7.6.4 1226 Joint Closure Pour (B686) C.7.6.4 1227 Pour Deck (B686) C.7.6.4 1228 Deck Curing (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1230 Form, Pour, Strip & Cure Approach Slab Abt AAbutment (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1232 Strip Overhangs (B686) C.7.6.4 1233 Groove Widened Deck (B686) C.7.6.4 1234 Permanently Reinstall VDOT Comm Line (B686) C00108424DB92.C.7.6.5 Retaining Wall / Ramp A East			04-09-21	C00108424DB92 - 5 day	0d							Form, Pour, S
C.7.6.4 1223 Reconstruct Bridge Joint Abt B (B686) C.7.6.4 1224 Reconstruct Bridge Joint Abt A (B686) C.7.6.4 1225 Demo for Joint Closure (B686) C.7.6.4 1226 Joint Closure Pour (B686) C.7.6.4 1227 Pour Deck (B686) C.7.6.4 1228 Deck Curing (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1230 Form, Pour, Strip & Cure Approach Slab Abt AAbutment (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1232 Strip Overhangs (B686) C.7.6.4 1233 Groove Widened Deck (B686) C.7.6.4 1234 Permanently Reinstall VDOT Comm Line (B686)			04-19-21	C00108424DB92 - 5 day	0d							Form, Pour,
C.7.6.4 1224 Reconstruct Bridge Joint Abt A (B686) C.7.6.4 1225 Demo for Joint Closure (B686) C.7.6.4 1226 Joint Closure Pour (B686) C.7.6.4 1227 Pour Deck (B686) C.7.6.4 1228 Deck Curing (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1230 Form, Pour, Strip & Cure Approach Slab Abt AAbutment (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1232 Strip Overhangs (B686) C.7.6.4 1233 Groove Widened Deck (B686) C.7.6.4 1234 Permanentty Reinstall VDOT Comm Line (B686) C.7.6.4 1234 Permanentty Reinstall VDOT Comm Line (B686)	5d 04	4-20-21	04-26-21	C00108424DB92 - 5 day	0d		 					I Install Deck
C.7.6.4 1225 Demo for Joint Closure (B686) C.7.6.4 1226 Joint Closure Pour (B686) C.7.6.4 1227 Pour Deck (B686) C.7.6.4 1228 Deck Curing (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1230 Form, Pour, Strip & Cure Approach Slab Abt AAbutment (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1232 Strip Overhangs (B686) C.7.6.4 1233 Groove Widened Deck (B686) C.7.6.4 1234 Permanentty Reinstall VDOT Comm Line (B686) C00108424DB92.C.7.6.5 Retaining Wall / Ramp A East	4d 04	4-27-21 (04-30-21	C00108424DB92 - Bridge	0d							■ Reconstruct
C.7.6.4 1226 Joint Closure Pour (B686) C.7.6.4 1227 Pour Deck (B686) C.7.6.4 1228 Deck Curing (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1230 Form, Pour, Strip & Cure Approach Slab Abt AAbutment (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1232 Strip Overhangs (B686) C.7.6.4 1233 Groove Widened Deck (B686) C.7.6.4 1234 Permanentty Reinstall VDOT Comm Line (B686) C00108424DB92.C.7.6.5 Retaining Wall / Ramp A East	4d 05	5-03-21	05-06-21	C00108424DB92 - Bridge	0d							1 Reconstru
C.7.6.4 1227 Pour Deck (B686) C.7.6.4 1228 Deck Curing (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1230 Form, Pour, Strip & Cure Approach Slab Abt AAbutment (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1232 Strip Overhangs (B686) C.7.6.4 1233 Groove Widened Deck (B686) C.7.6.4 1234 Permanentty Reinstall VDOT Comm Line (B686) C00108424DB92.C.7.6.5 Retaining Wall / Ramp A East	4d 05	5-07-21	05-12-21	C00108424DB92 - 5 day	0d							Demo for
C.7.6.4 1228 Deck Curing (B686) C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1230 Form, Pour, Strip & Cure Approach Slab Abt AAbutment (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1232 Strip Overhangs (B686) C.7.6.4 1233 Groove Widened Deck (B686) C.7.6.4 1234 Permanentty Reinstall VDOT Comm Line (B686) C00108424DB92.C.7.6.5 Retaining Wall / Ramp A East	4d 05	5-13-21	05-18-21	C00108424DB92 - Bridge	0d	\perp						Joint Clos
C.7.6.4 1229 Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686) C.7.6.4 1230 Form, Pour, Strip & Cure Approach Slab Abt AAbutment (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1232 Strip Overhangs (B686) C.7.6.4 1233 Groove Widened Deck (B686) C.7.6.4 1234 Permanently Reinstall VDOT Comm Line (B686) C00108424DB92.C.7.6.5 Retaining Wall / Ramp A East	3d 05	5-19-21	05-21-21	C00108424DB92 - Bridge	0d							l Pour Dec
C.7.6.4 1230 Form, Pour, Strip & Cure Approach Slab Abt AAbutment (B686) C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1232 Strip Overhangs (B686) C.7.6.4 1233 Groove Widened Deck (B686) C.7.6.4 1234 Permanently Reinstall VDOT Comm Line (B686) C00108424DB92.C.7.6.5 Retaining Wall / Ramp A East	6d 05	5-24-21	06-01-21	C00108424DB92 - Bridge	0d							■ Deck Cu
C.7.6.4 1231 Form, Pour, Strip & Cure Parapet (B686) C.7.6.4 1232 Strip Overhangs (B686) C.7.6.4 1233 Groove Widened Deck (B686) C.7.6.4 1234 Permanently Reinstall VDOT Comm Line (B686) C00108424DB92.C.7.6.5 Retaining Wall / Ramp A East	6d 06	6-02-21	06-09-21	C00108424DB92 - 5 day	0d							■ Form, F
C.7.6.4 1232 Strip Overhangs (B686) C.7.6.4 1233 Groove Widened Deck (B686) C.7.6.4 1234 Permanently Reinstall VDOT Comm Line (B686) C00108424DB92.C.7.6.5 Retaining Wall / Ramp A East	6d 06	6-10-21	06-17-21	C00108424DB92 - 5 day	0d							■ Form,
C.7.6.4 1233 Groove Widened Deck (B686) C.7.6.4 1234 Permanently Reinstall VDOT Comm Line (B686) C00108424DB92.C.7.6.5 Retaining Wall / Ramp A East			07-01-21	C00108424DB92 - Bridge	0d		 					■ Form
C.7.6.4 1234 Permanently Reinstall VDOT Comm Line (B686) C00108424DB92.C.7.6.5 Retaining Wall / Ramp A East			07-09-21	C00108424DB92 - 5 day	0d							■ Strip
C00108424DB92.C.7.6.5 Retaining Wall / Ramp A East			07-14-21	C00108424DB92 - 5 day	0d							I Gro
			07-16-21	C00108424DB92 - 5 day	12d							Perr
	129d 10		03-31-21		38d							7 C00108424DE
C.7.6.5 1235 Install MOT (Ramp A East)			10-05-20	C00108424DB92 - 5 day	59d		 			-44-4-4-4-4	I Install:MOT:(R	
C.7.6.5 1236 Demo Barrier and Lighting (Ramp A East)			10-12-20	C00108424DB92 - 5 day	59d						Demo Barrier	1 1 1 1 7 1
C.7.6.5 1237 Remove Noise Barrier (Ramp A East)			10-16-20	C00108424DB92 - 5 day	59d						Remove Nois	
C.7.6.5 1238 Install SOE (Ramp A East)			10-30-20	C00108424DB92 - 5 day	59d						Install SQE	
C.7.6.5 1239 Demo Existing Retaining Wall to Horizontal Limits (Ramp A East) C.7.6.5 1240 Install Pile for New Wall (Ramp A East)			11-06-20 12-16-20	C00108424DB92 - 5 day C00108424DB92 - 5 day	59d 42d							ing Retaining Wa ile for New Wall

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00108424	4DB92			I-66 Eastbound V	Videning Ins	side the Beltway Technical	Proposal											09-25-17	10:02
3S Path		Activity ID	Activity Name	Original Start	Finish	Calendar	Total			2018	[2019			2020		2021	
				Duration				ONDJ	FMA	M J J A S C	DND	J F M A	MJJ	JASONE	JFMAM	JJASO			
	C.7.6.5	1241	Install Lagging for New Wall (Ramp A East)	8d 12-17-20		C00108424DB92 - 5 day	42d											agging for New	1 1 1
	C.7.6.5	1242	Demo Existing Wall to Verticle Limits (Ramp A East)	5d 12-30-20		C00108424DB92 - 5 day	42d											Existing Wall to	1 1 1
	C.7.6.5	1243	Backfill New Wall (Ramp A East)	5d 01-07-21	01-13-21	C00108424DB92 - 5 day	42d										1 1 1 1 1	II New Wall (Ra	11.1
	C.7.6.5	1244	Complete Backfill (Ramp A East)	5d 01-14-21	01-20-21	C00108424DB92 - 5 day	42d										1 1 1 1 1	olete Backfill (R	1111
	C.7.6.5	1245	Install Lighting Foundation (Ramp A East)	5d 01-21-21	01-27-21	C00108424DB92 - 5 day	42d						ļļļ.					II Lighting Foun	
	C.7.6.5	1246	Install Noise Barrier (Ramp A East)	5d 01-28-21	02-03-21	C00108424DB92 - 5 day	42d				1 1 1							all Noise Barrie	i i
	C.7.6.5	1247	Install MB-7F (Ramp A East)	8d 02-04-21	02-15-21	C00108424DB92 - 5 day	42d											tall MB-7F (Rai	
	C.7.6.5	1248	Install Underdrain (Ramp A East)	4d 02-16-21	02-19-21	C00108424DB92 - 5 day	42d										1 1 171 1	tall Underdrain	, i
	C.7.6.5	1249	Install Soil Cement (Ramp A East)	6d 03-01-21	03-08-21	C00108424DB92 -	37d											nstall Soil Ceme	1 1
	C.7.6.5	1250	Install CTA (Ramp A East)	6d 03-09-21	03-16-21	C00108424DB92 -	37d							<u> </u>			1 0 11	nstall CTA (Ra	npAE
	C.7.6.5	1251	Install Asphalt to IM Layer (Ramp A East)	4d 03-17-21	03-22-21	C00108424DB92 - Paving	37d										0	Install Asphalt t	o IM La
	C.7.6.5	1252	Install Lighting (Ramp A East)	5d 03-23-21	03-29-21	C00108424DB92 - 5 day	37d				1 1 1							Install Lighting	(Ram
	C.7.6.5	1253	Install Permanent Signage (Ramp A East)	2d 03-30-21	03-31-21	C00108424DB92 - 5 day	37d										1 1 1 1	Install Perman	ent Sig
	C00108424DB92	.C.7.6.6 Final St	urface / Landscaping	53d 05-21-21	08-03-21		0d				111							▼ 	JQ1084
	C.7.6.6	1254	Mill & Overlay Ramp B	5d 05-21-21	05-27-21	C00108424DB92 - Paving	24d											□ Mill & Ov	erlay F
	C.7.6.6	1255	Final Striping Ramp B	4d 05-28-21	06-03-21	C00108424DB92 - Paving	24d						1111		77777			[] Final Sti	iping F
	C.7.6.6	1256	Mill & Overlay Ramp W	3d 06-04-21	06-08-21	C00108424DB92 - Paving	24d											I Mill & O	verlay
	C.7.6.6	1257	Final Striping Ramp W	1d 06-09-21	06-09-21	C00108424DB92 - Paving	24d											Final St	riping
	C.7.6.6	1258	Mill & Overlay Ramp A	4d 07-15-21	07-20-21	C00108424DB92 - Paving	0d											■ Mill	& Ove
	C.7.6.6	1259	Final Striping Ramp A	3d 07-21-21	07-23-21	C00108424DB92 - Paving	0d											I Fin	al Strip
	C.7.6.6	1260	Mill & Overlay Rt 7	4d 07-26-21	07-29-21	C00108424DB92 - Paving	0d					11-11-11-1	1-1-1-		77177			I t Mi	I & Ov
	C.7.6.6	1261	Final Striping Rt 7	3d 07-30-21	08-03-21	C00108424DB92 - Paving	0d											i i i i	nal Str
	C.7.6.6	1262	Landscaping Ramp B	15d 05-21-21	06-11-21	C00108424DB92 - Planting	0d											Landso	aping
	C.7.6.6	1263	Landscaping Ramp A & SWM	15d 05-25-21	06-15-21	C00108424DB92 - Planting	0d											Lands	apingپ
C	000108424DB92.C.	7.7 Custis Trail I	Modification	239d 06-06-18	05-06-19		396d				111	+ + + +	▼ C001	08424DB92.C	.7.7 Custis Tra	l Modification			
	C.7.7	1264	Install Pedestrian MOT (Custis Trail Mod)	2d 06-06-18	06-07-18	C00108424DB92 - 5 day	535d		:	Install Ped	lestrian I	MOT (Cus	stis Trail I	Mod)					
	C.7.7	1265	Clear and Grub (Custis Trail Mod)	6d 06-08-18	06-15-18	C00108424DB92 - 5 day	535d			Clear and	Grub (C	Custis Trai	il Mod)						
	C.7.7	1266	Earthwork For Curve (Custis Trail Mod)	15d 06-18-18	07-09-18	C00108424DB92 - 5 day	535d			Earthweet	ork For (Curve (Cu	ıstis Trai	l Mad)					
	C.7.7	1267	Install 21B (Custis Trail Mod)	8d 07-10-18	07-19-18	C00108424DB92 -	451d			■ Install	21B (Cu	stis Trail N	Mod)						
	C.7.7	1268	Pave Curve Section (Custis Trail Mod)	6d 07-20-18	07-27-18	C00108424DB92 - Paving	408d			☐ Pave	Curve S	ection (C	ustis Tra	il Mod)					
	C.7.7	1269	Install Temporary Trail Connections (Custis Trail Mod)	5d 07-30-18	_	C00108424DB92 - Paving	408d] Insta	II Tempo	rary Trail	Connect	ions (Custis T	ail Mod)				
	C.7.7	1270	Shut Down Trail for Tie Ins (Custis Trail Mod)	1d 08-03-18		C00082135DB77 - 7 Day	771d			Shut	Down T	rail for Tie	Ins (Cu	stis Trail Mod)					1.1
	C.7.7	1271	Perform Tie Ins (Custis Trail Mod)	1d 08-04-18		C00082135DB77 - 7 Day	771d				- 1 1 1	ns (Custis	1 111	1 1 1 1 1					
		1			+			1 1 1	1 1 1 1	1 [. [.]	15	. : ` . `.	1	1 4 1 1					1 1

C00108424DB92 - 5 day

536d

285d

215d

3d 09-04-18 09-06-18 C00108424DB92 - Planting

35d 03-18-19 05-06-19 C00108424DB92 - Planting

3d 08-06-18 08-08-18

1275

1276

1277

Landscaping (Custis Trail Mod)

Permanet Seeding (Custis Trail Mod)

Demo Remaining Asphalt. (Custis Trail Mod)

C.7.7

C.7.7

C.7.7

I Demo Remaining Asphalt. (Custis Trail Mod)

Permanet Seeding (Custis Trail Mod)

Landscaping (Custis Trail Mod)

	Activity ID	Activity Name	Original Start Duration	Finish	Calendar	Total 2018 2019 2020 2021 Float O N D J F M A M J J A S O N D J F M A M J A M A M J J A S O N D J F M A M J A M A M J J A S O
08424DB92 I-66 Eas	stbound Widening In	nside the Beltway Technical Proposal	1400d 11-03-17	09-02-21		
0108424DB92.1 Mile			1104d 11-03-17	11-10-20		0d C00108424DB92.1 M
1	2	Notice of Intent to Award	0d 11-03-17		C00108424DB92 - 5 day	0d ♦ Notice of Intent to Award
1	3	CTB Approval / Notice of Award	0d 12-06-17		C00108424DB92 - 7 day	0d ♦ CTB Approval / Notice of Award
1	4	Design-Build Contract Execution	0d 01-05-18		C00108424DB92 - 5 day	0d
1	464	Start Construction I-66 EDA	1d 10-01-20*	10-01-20	C00108424DB92 - 5 day	0d Start Construction I-66 ED
1	5	Notice to Proceed	1d 01-08-18	01-08-18	C00108424DB92 - 5 day	0d I Notice to Proceed
1	6	Interim Milestone - November 10, 2020	0d	11-10-20*	C00108424DB92 - 7 day	0d
0108424DB92.B I-6	66 EBW Design Pha		201d 01-08-18	07-27-18		0d
C00108424DB92.B.			120d 01-08-18	05-08-18		0d C00108424DB92\B.1 Scope Validation
B.1	13	Scope Validation Investigation and Findings (120 days)	120d 01-08-18	05-08-18	C00108424DB92 - 7 day	0d Scope Validation Investigation and Findings (120 days)
B.1	14	Scope Validation Submission	0d	05-08-18*	C00108424DB92 - 5 day	0d ♦ Scope Validatión Submission
C00108424DB92.B.	3 Design		201d 01-08-18			0d
	2.B.3.2 Supplementa	al Survey		02-14-18	C00108424DB92 - 5 day	0d ▼ C00108424DB92.B;3.2 Supplemental Survey
	392.B.3.2.2 Field Su	<u> </u>	26d 01-10-18	02-14-18	C00108424DB92 - 5 day	0d C00108424DB92.B:3.2.2; Field; Surveys
B.3.2.2	34	Prepare & Submit Draft Property Owner Notification Letter & Address Listing	5d 01-10-18	01-16-18	C00108424DB92 - 5 day	0d Prepare & Submit Draft Property Owner Notification Letter & Address Listing
B.3.2.2	35	VDOT Review and Approve Property Owner Notification Letter	1d 01-17-18	01-17-18	C00108424DB92 - 5 day	0d VDOT Review and Approve Property Owner Notification Letter
B.3.2.2	39	Stake Geotechnical Boring Locations	5d 02-08-18	02-14-18	C00108424DB92 - 5 day	0d Stake Geotechnical Boring Locations
C00108424DB92		al Engineering & Subsurface Investigations	173d 01-11-18	07-02-18		0d ▼
B.3.3	43	Prepare and Submit Geotechnical Boring Location Plan	10d 01-11-18	01-24-18	C00108424DB92 - 5 day	0d Prepare and Submit Geotechnical Boring Location Plan
B.3.3	45	Prepare Property Owner Notification Letters for Geotechnical Investigations	1d 01-18-18	01-18-18	C00108424DB92 - 5 day	0d I Prepare Property Owner Notification Letters for Geotechnical Investigations
B.3.3	46	Secure Permits and Clear Utilities as Required	15d 01-25-18	02-14-18	C00108424DB92 - 5 day	0d Secure Permits and Clear Utilities as Required
B.3.3	48	Perform Geotechnical Field Investigations	39d 02-15-18	04-11-18	C00108424DB92 - 5 day	0d Perform Geotechnical Field Investigations
B.3.3	49	Boring Logs, Laboratory Testing & Analysis	49d 02-22-18	05-02-18	C00108424DB92 - 5 day	0d Boring Logs, Laboratory Testing & Analysis
B.3.3	50	Prepare/Submit Bridge Geotechnical Engineering Report B-675 & 677	19d 03-07-18	04-03-18	C00108424DB92 - 5 day	0d Prepare/Submit Bridge Gebtechhical Engineering Report B-675 & 677
B.3.3	61	VDOT Review/Approve Bridge Geotechnical Engineering Report B-675 & 677	90d 04-03-18	07-02-18	C00108424DB92 - 7 day	0d VDOT Review/Approve Bridge Geotechnical Engineering Report B-67,5 & 677
	2.B.3.4 Roadway De		56d 01-08-18	03-26-18	C00108424DB92 - 5 day	0d C00108424DB92.B.3/4 Roadway Design
	392.B.3.4.1 Develop		56d 01-08-18	03-26-18	C00108424DB92 - 5 day	0d C00108424DB92.B.3;4.1 Develop ROW Plans
B.3.4.1	75	Right-of-Way/Roadway Plan Development 1st Submittal	56d 01-08-18	03-26-18	C00108424DB92 - 5 day	0d Right-of-Way/Roadway Plan Development 1st Submittal
	2.B.3.5 Bridge Design		132d 01-22-18		C00108424DB92 - 5 day	0d V C00108424DB92.B.3.5 Bridge Design
C00108424DB	392.B.3.5.1 Segmer	nt 1 Bridges B-675 & B-677 Widening	132d 01-22-18	07-27-18	C00108424DB92 - 5 day	0d
B.3.5.1	136	Prepare B-675 & B-677 Reports/Const Stages/TS&L (Stage I) Submission	16d 01-22-18	02-12-18	C00108424DB92 - 5 day	0d Prepare B-675 & B-677 Reports/Const Stages/TS&L (Stage I) Submission
B.3.5.1	137	Submit B-675 & B-677 Stage I Submission	1d 02-13-18	02-13-18	C00108424DB92 - 5 day	0d I Submit B-675 & B-677 Stage I Submission
B.3.5.1	139	Address Comments and Prepare B-675 & B-677 Final Plans (Stage II) Submission	78d 03-07-18	06-26-18	C00108424DB92 - 5 day	0d Address Comments and Prepare B-675 & B-677 Final Plans (Stage II) Submission
B.3.5.1	141	Load Rating Analysis for Partial Demolition	3d 06-22-18	06-26-18	C00108424DB92 - 5 day	0d I. Load Rating Analysis for Partial Demolition
B.3.5.1	142	Design QA/QC B-675 & B-677 Stage II Submission	3d 06-27-18	06-29-18	C00108424DB92 - 5 day	0d I Design QA/QC B-675 & B-677 Stage I) Submission
B.3.5.1	143	Submit B-675 & B-677 Stage II Submission	1d 07-02-18	07-02-18	C00108424DB92 - 5 day	0d] Submit B-675 & B-677 Stage II Submission
B.3.5.1	145	Final Revisions, Released for Construction(RFC) Plans	4d 07-24-18	07-27-18	C00108424DB92 - 5 day	0d
0108424DB92.C Co	onstruction		1185d 06-06-18	09-02-21		00
C00108424DB92.C.	1 Construction Eng	gineering Design Services	619d 06-06-18	11-10-20	C00108424DB92 - 5 day	0d ::::::::::::::::::::::::::::::::::::
C.1	569	Utility Coordination During Construction	619d 06-06-18	11-10-20	C00108424DB92 - 5 day	0d Utility/Coordination Dur
C.1	570	Respond to Request for Information and Submittal Review	619d 06-06-18	11-10-20	C00108424DB92 - 5 day	0d Respond to Request for
C.1	571	Construction Engineering Design and Field Coordination	619d 06-06-18	11-10-20	C00108424DB92 - 5 day	0d Canstruction Engineer
C00108424DB92.C.:	2 Quality Control		825d 06-06-18	09-02-21	C00108424DB92 - 5 day	00
C.2	572	Project Quality Control	825d 06-06-18	09-02-21	C00108424DB92 - 5 day	
C00108424DB92.C.	4 Segment 1 Sta 12	20+00 to 172+00	331d 07-30-18	06-25-19		0d Q00/108424DB92.C.4. Segment 1 Sta 1/20+00 to 172+00
C00108424DB92	2.C.4.3 B675		331d 07-30-18	06-25-19		0d
C.4.3	650	Install Pier 1 Foundation (B675)	8d 07-30-18	08-08-18	C00108424DB92 - 5 day	0d Install Pier 1 Foundation (B675);
C.4.3	651	Form, Pour, Strip & Cure Pier 1 Pile Cap (B675)	5d 08-09-18	08-15-18	C00108424DB92 - 5 day	0d ■ Form, Pour, Strip & Cure Pier 1 Pile Cap (B675)
C.4.3	652	Form, Pour, Strip & Cure Pier 1 Stem (B675)	5d 08-16-18	08-22-18	C00108424DB92 - Bridge	0d
C.4.3	653	Form, Pour, Strip & Cure Pier 1 Cap (B675)	5d 08-23-18	08-29-18	C00108424DB92 - Bridge	0d I Form, Pour, Strip & Gure Pier 1 Çap (B675)
C.4.3	654	Form, Pour, Strip & Cure Pier 1 Beam Seat (B675)	5d 08-30-18	09-06-18	C00108424DB92 - Bridge	0d Porm, Pour, Strip & Cure Pier 1 Beam Seat (B675)
C.4.3	663	Demo SOE Abt A & Pier 1 (B675)	1d 09-07-18	09-07-18	C00108424DB92 - 5 day	0d Demd SOE;Abt A'& Pier 1;(B675)
C.4.3	664	Demo SOE Abt B & Pier 2 (B675)	1d 09-10-18	09-10-18	C00108424DB92 - 5 day	0d I Demo SDE Abt B & Pier 2 (B675)
	665	Saw Cut Deck (B675)	1d 09-11-18	09-11-18	C00108424DB92 - 5 day	0d II Saw Cut Deck (B675)
C.4.3						

108424DB92 Long	est Path for Inter	im Milestone	I-66 Eastbound V	Videning Ins	side the Beltway Technical	Proposal		09-26-17
ath	Activity ID	Activity Name	Original Start Duration	Finish	Calendar	Total Float OT		 2018
C.4.3	666	Demo Deck and Parapet (B675)	2d 09-12-18	09-13-18	C00108424DB92 - 5 day	Od	NDJJIIMIAIM	Demo Deck and Parapet (B675)
C.4.3	667	Erect Girder Line (B675)	4d 09-14-18	09-19-18	C00108424DB92 - 5 day	0d		■ Erect Girder Line (B675)
C.4.3	668	Install Deck Forms (B675)	5d 09-20-18	09-26-18	C00108424DB92 - 5 day	0d		Install Deck Forms (B675)
C.4.3	669	Install Overhangs (B675)	5d 09-27-18	10-03-18	C00108424DB92 - 5 day	0d		I Install Overhangs (B675)
C.4.3	670	Form, Pour, Strip & Cure Backwall Abt A Abutment (B675)	5d 10-04-18	10-10-18	C00108424DB92 - Bridge	0d		Form, Pour, Strip & Cure Backwall Abt A'Abutment (B675)
C.4.3	671	Form, Pour, Strip & Cure Backwall Abt B Abutment (B675)	5d 10-11-18	10-17-18	C00108424DB92 - Bridge	0d		■ Form, Pour, Strip & Cure Backwall Abt B Abutment (B675)
C.4.3	672	Install Deck Rebar (B675)	6d 10-18-18	10-25-18	C00108424DB92 - 5 day	0d		II Install Deck Rebar (B675)
C.4.3	673	Reconstruct Bridge Joint Abt A (B675)	5d 10-26-18	11-01-18	C00108424DB92 - Bridge	0d		Reconstruct Bridge Joint Abt A (B675);
C.4.3	674	Reconstruct Bridge Joint Abt B (B675)	5d 11-02-18	11-08-18	C00108424DB92 - Bridge	0d		Reconstruct Bridge Joint Abt B (B675)
C.4.3	675	Demo for Joint Closure Pier 1 (B675)	3d 11-09-18	11-13-18	C00108424DB92 - 5 day	0d		■ Demo for Joint Closure Pier 1 (B675)
C.4.3	676	Joint Closure Pour Pier 1 (B675)	5d 11-14-18	11-20-18	C00108424DB92 - Bridge	0d	-1-1-1-1-1-1	
C.4.3	677	Demo for Joint Closure Pier 2 (B675)	3d 11-21-18	11-26-18	C00108424DB92 - 5 day	0d		Demo for Joint Closure Pier 2 (B675)
C.4.3	678	Joint Closure Pour Pier 2 (B675)	5d 11-27-18	12-04-18	C00108424DB92 - Bridge	0d		Joint Closure Pour Pier;2 (B675)
C.4.3	679	Pour Deck (B675)	5d 12-05-18	12-11-18	C00108424DB92 - Bridge	0d		Pour Deck (B675)
C.4.3	680	Deck Curing (B675)	3d 12-12-18	12-14-18	C00108424DB92 - Bridge	0d		I Deck Curing (B675)
C.4.3	681	Form, Pour, Strip & Cure Approach Slab Abt AAbutment (B675)	6d 02-18-19	02-25-19	C00108424DB92 - Bridge	0d		Form, Pour, Strip & Cure Approach Slab Abt; AAbutment (B675)
C.4.3	682	Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B675)	6d 02-26-19	03-05-19	C00108424DB92 - Bridge	0d		Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B675)
C.4.3	683	Form, Pour, Strip & Cure Parapet (B675)	10d 03-06-19	03-19-19	C00108424DB92 - Bridge	0d		Form, Pour, Strip & Cure Parapet (B675)
C.4.3	684	Strip Overhangs (B675)	7d 03-20-19	03-28-19	C00108424DB92 - 5 day	0d		\$trip Overhangs (B675)
C.4.3	685	Groove Widened Deck (B675)	3d 03-29-19	04-02-19	C00108424DB92 - 5 day	0d		☐ Groove Widened Deck (B675) ☐ Groove Widened
C.4.3	690	Saw Cut Deck Outside (B675)	1d 04-03-19	04-03-19	C00108424DB92 - 5 day	0d	-1-1-1-1-1-1-1	\$aw Cut Deck Outside (B675)
C.4.3	691	Remove Noise Barrier (B675)	1d 04-04-19	04-04-19	C00108424DB92 - 5 day	0d		I Remove Noise Barrier (B675)
C.4.3	692	Demo Overhang (B675)	3d 04-05-19	04-09-19	C00108424DB92 - 5 day	0d		Demo Ovethang (B675)
C.4.3	693	Hydrodemo Interior Bay (B675)	8d 04-10-19	04-19-19	C00108424DB92 - 5 day	0d		■ Hydrodemo Interior Bay (B675)
C.4.3	694	Install Overhangs (B675)	7d 04-23-19	05-01-19	C00108424DB92 - 5 day	0d		■ Install Overhangs (B675)
C.4.3	695	Install Deck Rebar (B675)	6d 05-02-19	05-09-19	C00108424DB92 - 5 day	0d		I Install Deck Rebar (B675)
C.4.3	696	Pour Deck (B675)	5d 05-10-19	05-16-19	C00108424DB92 - Bridge	0d		□ Pour Deck (B675)
C.4.3	697	Deck Curing (B675)	3d 05-17-19	05-21-19	C00108424DB92 - Bridge	0d		■ Deck Curing (B675)
C.4.3	698	Form, Pour, Strip & Cure Parapet (B675)	8d 05-22-19	06-03-19	C00108424DB92 - Bridge	0d		Form, Pour, Strip & Cure Parapet (B675)
C.4.3	699	Install Noise Barrier (B675)	5d 06-04-19	06-10-19	C00108424DB92 - 5 day	0d		Install Noise Barrier (B675)
C.4.3	700	Strip Overhangs (B675)	8d 06-11-19	06-20-19	C00108424DB92 - 5 day	0d		Strip:Overhangs (B675)
C.4.3	701	Groove New Surface (B675)	3d 06-21-19	06-25-19	C00108424DB92 - 5 day	0d		□ Groove New Surface (B675)
C00108424DB92.0	C.5 Segment 2 Sta 1	72+00 to 238+00	273d 06-26-19	03-24-20		0d		C00108424DB92.C.5 Segment 2 Sta 172+00 to
C00108424DB9	2.C.5.1 Segment 2A		112d 06-26-19	10-15-19		0d		C00108424DB92.C;5.1 \$egment 2A
C.5.1	790	Install Portion of Phase 3A MOT (B678 to Sta 238)(Segment 2A)	4d 06-26-19	07-01-19	C00108424DB92 - 5 day	0d		I Install Portion of Phase 3AMOT (B678 to Sta 238)(Segment 2A)
C.5.1	791	Clear and Grub (B678 to Sta 238)(Segment 2A)	4d 07-02-19	07-08-19	C00108424DB92 - 5 day	0d		Clear and Grub (B678 to \$ta 238)(Segment 2A)
C.5.1	792	Replace Portion of Crossing Sta 211+50 (B678 to Sta 238)(Segment 2A)	8d 07-09-19	07-18-19	C00108424DB92 - 5 day	0d		■ Replace Portion of Crossing Sta 211+50 (B678 to Sta 238)(Segment 2A)
C.5.1	793	Replace Pipe Sta 212 to 214 (B678 to Sta 238)(Segment 2A)	8d 07-09-19	07-18-19	C00108424DB92 - 5 day	0d		Replace Pipel Sta 212 to 214 (B678 to Sta 238)(Segment 2A)
C.5.1	794	Replace Crossing Sta 219 (B678 to Sta 238)(Segment 2A)	8d 07-09-19	07-18-19	C00108424DB92 - 5 day	0d		Replace Crossing Stat 219 (B678 to Stat 238) (Segment 2A)
C.5.1	795	Replace Crossing Sta 237 (B678 to Sta 238)(Segment 2A)	8d 07-09-19	07-18-19	C00108424DB92 - 5 day	0d		■ Replace Crossing Sta 237 (B678 to Sta 238)(Segment 2A)
C.5.1	796	Demo Remaining Guardrail and Barrier (B678 to Sta 238)(Segment 2A)	4d 07-19-19	07-24-19	C00108424DB92 - 5 day	0d		Demo Remaining Guardrail and Barrier (B678 to Sta 238) (Segment 2A)
C.5.1	797	Install Remaining Drainage (B678 to Sta 238)(Segment 2A)	5d 07-25-19		C00108424DB92 - 5 day	0d		Install Remaining Drainage (B678 to Sta 238) (Segment 2A)
C.5.1	798	Demo Existing Pavement (B678 to Sta 238)(Segment 2A)	4d 08-01-19	08-06-19	C00108424DB92 - 5 day	0d		■ Demo Existing Pavement (B678 to Sta 238) (Segment 2A)
C.5.1	799	Earthwork (B678 to Sta 238)(Segment 2A)	5d 08-07-19		C00108424DB92 - 5 day	0d		■ Earthwork (B678 to Sta 238) (Segment 2A)
C.5.1	800	Install Soil Cement (B678 to Sta 238)(Segment 2A)	8d 08-14-19	08-23-19	C00108424DB92 -	0d		Install \$oil Cement (B678 to Sta 238) (Segment 2A)
C.5.1	801	Install CTA (B678 to Sta 238)(Segment 2A)	8d 08-26-19	09-05-19	C00108424DB92 -	0d		Install CTA (B678 to Sta 238)(Segment 2A)
C.5.1	802	Install MB-7F (B678 to Sta 238)(Segment 2A)	8d 09-06-19	09-17-19	C00108424DB92 - 5 day	0d		□ Install MB-7F (B678 to Sta 238)(Segment 2A)
C.5.1	803	Install BPPS-1 (B678 to Sta 238)(Segment 2A)	8d 09-18-19	09-27-19	C00108424DB92 - 5 day	0d		■ Install BPPS-1 (B678 to Sta 238)(Segment 2A)
C.5.1	804	Install Asphalt to IM Layer (B678 to Sta 238)(Segment 2A)	8d 09-30-19	10-09-19	C00108424DB92 - Paving	0d		Install Asphalt to IM Layer (B678 to Sta 238) (Segment 2A)
C.5.1	805	Complete Ditches (B678 to Sta 238)(Segment 2A)	4d 10-10-19	10-15-19	C00108424DB92 - 5 day	0d		I Complete Ditches (B678 to \$ta 238)(Segment 2A)
C00108424DB9	92.C.5.2 Segment 2B		161d 10-16-19	03-24-20		0d		C00108424DB92.C.5:2 Segment 2B
C.5.2	831	Install Portion of Phase 3B MOT (B678 to Sta 238)(Segment 2B)	2d 10-16-19	10-17-19	C00108424DB92 - 5 day	0d		I Install Portion of Phase 3B MOT (B678 to \$ta 238) (Segment 2B
C.5.2	832	Replace Remianing Portion of Crossing Sta 211+50 (B678 to Sta 238)(Segment 2B)	4d 10-18-19	10-23-19	C00108424DB92 - 5 day	0d		Replace Remianing Portion of Crossing Sta 211+50 (B678 to St
C 5 2	833	Install Remaining Drainage (R678 to Sta 238)(Segment 2B)	4d 10-24-19		C00108424DB92 - 5 day			Install Remaining Drainage (B678 to Sta 238) (Segment 2B)

Install Remaining Drainage (B678 to Sta 238)(Segment 2B)

Demo Existing Pavement (B678 to Sta 238)(Segment 2B)

C.5.2

C.5.2

833

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Page 2 of 3

C00108424DB92 - 5 day

C00108424DB92 - 5 day

4d 10-24-19 10-29-19

4d 10-30-19 11-04-19

Wagman Heavy Civil, Inc.

Install Remaining Drainage (B678 to Sta 238)(Segment 2B)

Demo Existing Pavement (B678 to Sta 238) (Segment 2B)

	Activity ID	Activity Name	Original Start Duration	Finish	Calendar	Total Float	INID I		2018	2019			202	
C.5.2	835	Install Rough Electrical (B678 to Sta 238)(Segment 2B)	3d 11-05-19	11-07-19	C00108424DB92 - 5 day	0d	IN D 3	F W A W	3 3 A S O N D	3 F M A M 3 3		D J F M A M J J A S O N D		JAISIG
C.5.2	836	Install Soil Cement (B678 to Sta 238)(Segment 2B)	6d 11-08-19	11-15-19	C00108424DB92 -	0d						Install Soil Cement (B678 to Sta 238	(Segment 2B)	
C.5.2	837	Install CTA (B678 to Sta 238)(Segment 2B)	6d 11-18-19	11-25-19	C00108424DB92 -	0d						Install CTA (B678 to Sta 238)(Segn	ent 2B)	
C.5.2	838	Install MB-7F (B678 to Sta 238)(Segment 2B)	6d 11-26-19	12-04-19	C00108424DB92 - 5 day	0d						■ (nstall MB-7F (B678 to \$ta 238)(S	gment 2B)	
C.5.2	839	Install MB-7A (B678 to Sta 238)(Segment 2B)	6d 12-05-19	12-12-19	C00108424DB92 - 5 day	0d						■ Install MB-7A (B678 to Sta 238)(S		
C.5.2	840	Install Asphalt to IM Layer (B678 to Sta 238)(Segment 2B)	5d 12-13-19	03-19-20	C00108424DB92 - Paving	0d						Install Asphalt to IM Laye		1 7 1
C.5.2	841	Complete Electrical (B678 to Sta 238)(Segment 2B)	3d 03-20-20	03-24-20	C00108424DB92 - 5 day	0d						Complete Electrical (B6	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1
	C.6 Segment 3 238+0		231d 03-25-20			Od Od						C00108424DB92.	0108424DB92.C.6	Segm
C.6.1	2.C.6.1 Segment 3A 907	Install Remaing Phase 3A MOT (Segment 3A)	56d 03-25-20 3d 03-25-20	05-19-20	C00108424DB92 - 5 day	0d						I Install Remaing Phase	1 1 1 7 1 1 1	3A)
C.6.1	908	Clear and Grub (Segment 3A)	2d 03-30-20	03-31-20	C00108424DB92 - 5 day	0d					 	Clear and Grub (Segm	L	
C.6.1	909	Replace Crossing Sta 257 (Segment 3A)	5d 04-01-20	04-07-20	C00108424DB92 - 5 day	0d						■ Replace Crossing Sta	1 1 1 1 1 1 1	
C.6.1	910	Replace Crossing Sta 269 (Segment 3A)	5d 04-01-20	04-07-20	C00108424DB92 - 5 day	0d						Replace Crossing Sta	: : : : : : :	
C.6.1	911	Replace Crossing Sta 272 (Segment 3A)	5d 04-01-20	04-07-20	C00108424DB92 - 5 day	0d						Replace Crossing Sta	272 (Segment 3A)	
C.6.1	912	Replace Crossing Sta 278 (Segment 3A)	5d 04-01-20	04-07-20	C00108424DB92 - 5 day	0d						■ Replace Crossing Sta	278 (Segment 3A)	
C.6.1	913	Replace Crossing Sta 290+50 (Segment 3A)	5d 04-01-20	04-07-20	C00108424DB92 - 5 day	0d						Replace Crossing Sta		3A)
C.6.1	914	Replace Crossing Sta 293 (Segment 3A)	5d 04-01-20	04-07-20	C00108424DB92 - 5 day	0d						Replace Crossing Sta	: : : : : : :	
C.6.1	915	Replace Crossing Sta 300 (Segment 3A)	5d 04-01-20	04-07-20	C00108424DB92 - 5 day	0d						■ Replace Crossing Sta		1 1
C.6.1	916	Install Remaining Drainage (Segment 3A)	4d 04-02-20	04-07-20	C00108424DB92 - 5 day	0d						I Install Remaining Drai		
C.6.1	917	Demo Existing Pavement (Segment 3A)	4d 04-08-20	04-14-20	C00108424DB92 - 5 day	0d					ļ- <u>-</u> iii	Demo Existing Pavem	hk-dtkkk	
C.6.1	918 919	Install Soil Cement (Segment 3A)	6d 04-15-20 6d 04-23-20	04-22-20	C00108424DB92 - C00108424DB92 -	0d 0d						Install \$oil Cement (S Install CTA (Segment)		
C.6.1	920	Install CTA (Segment 3A) Install MB-7F (Segment 3A)	3d 05-01-20	05-05-20	C00108424DB92 - 5 day	0d 0d						Install MB-7F (Segmen		
C.6.1	921	Install BPPS-1 (Segment 3A)	3d 05-06-20	05-03-20	C00108424DB92 - 5 day	0d 0d						I Install BPP\$-1 (Seg		
C.6.1	922	Install Asphalt to IM Layer (Segment 3A)	4d 05-11-20	05-00-20	C00108424DB92 - Paving	0d						Install Asphalt to IN		Ϋ́
C.6.1	923	Complete Ditches (Segment 3A)		05-19-20	C00108424DB92 - 5 day	0d		-}}				Complete Ditches	L [d -]- 1 - T L d	
C00108424DB9	2.C.6.2 Segment 3B	1 2 2	148d 05-20-20			0d							08424DB92.C 6.2	Segme
C.6.2	924	Install Remaing Phase 3B MOT (Segment 3B)	4d 05-20-20	05-26-20	C00108424DB92 - 5 day	0d						I Install Remaing P	ase 3B MOT (Segr	ment 31
C.6.2	925	Replace Pipe Sta 247 (Segment 3B)	5d 05-28-20	06-03-20	C00108424DB92 - 5 day	0d						Replace Pipe Sta	247 (Segment 3B)	
C.6.2	926	Install Remaining Drainage (Segment 3B)	5d 06-04-20	06-10-20	C00108424DB92 - 5 day	0d		.				I Install Remainin	1 1 1 7 1 1	1 1
C.6.2	927	Remove Guardrail & Barrier (Segment 3B)	5d 06-11-20	06-17-20	C00108424DB92 - 5 day	0d						I Remove Guard		ent 3B)
C.6.2	928	Install RW-7 (Segment 3B)	8d 06-18-20	06-29-20	C00108424DB92 - 5 day	0d						Install RW-7 (1 -1 1 1 1 1 1	
C.6.2	929	Demo Existing Pavement (Segment 3B)	5d 06-18-20	06-24-20	C00108424DB92 - 5 day	0d							Pavement (Segmen	1 (
C.6.2	930	Install Rough Electrical (Segment 3B)	4d 06-25-20	06-30-20	C00108424DB92 - 5 day	0d							lectrical (Segment : Noise Barrier H1 8	1 1
C.6.2	931 932	Demo Existing Noise Barrier H1 & Barrier (Segment 3B) Install Moment Slab Sta 254+50 to 272 (Segment 3B)	5d 07-01-20 11d 07-09-20	07-08-20 07-23-20	C00108424DB92 - 5 day	0d		-}}}			 		nt Slab Sta 254+50	
C.6.2	933	Install Noise Barrier Sta 254+50 to 272 (Segment 3B)		07-23-20	C00108424DB92 - 5 day	0d 0d							Barrier \$ta 254+50	1 1
C.6.2	934	Install MB 7F Sta 254+50 to 272 (Segment 3B)	10d 07-31-20	08-13-20	C00108424DB92 - 5 day	0d						! ! ! ! ! ! ! ! ! ! ! ! ! !	7F Sta 254+50 to 2	!!!
C.6.2	935	Install Soil Cement (Segment 3B)	8d 08-14-20	08-25-20	C00108424DB92 -	0d							Cement (Segment	1 1 7
C.6.2	936	Install CTA (Segment 3B)	8d 08-26-20	09-04-20	C00108424DB92 -	0d						■ Install:C	A (Segment 3B)	
C.6.2	937	Install MB-7F (Segment 3B)	8d 09-08-20	09-17-20	C00108424DB92 - 5 day	0d						I Install I	B-7F (Segment 3E	3)
C.6.2	938	Install MB-12C (Segment 3B)	8d 09-18-20	09-29-20	C00108424DB92 - 5 day	0d						I Instal	MB-12C (Segment	3B)
C.6.2	939	Install Asphalt to IM Layer (Segment 3B)	5d 09-30-20	10-06-20	C00108424DB92 - Paving	0d						I Insta	Asphalt to IM Laye	r (Segr
C.6.2	940	Complete Electrical (Segment 3B)	4d 10-07-20	10-12-20	C00108424DB92 - 5 day	0d						■ Com	olete Electrical (Sec	gment 3
C.6.2	941	Install Permanet Signage (Segment 3B)		10-14-20	C00108424DB92 - 5 day	0d	1.1.1.						Permanet Signage	
C00108424DB9		e / Landscaping	27d 10-15-20		0004004040000	0d							0108424DB92.C.6	1 1
C.6.5	1000	Mill & Overlay B-679 to End Final Striping B-679 to Sta End	5d 10-28-20 4d 11-04-20	11-03-20	C00108424DB92 - Paving C00108424DB92 - Paving	0d 0d							& Overlay B-679 to	i i
C.6.5	1281	Final Traffic Shift Gantry #3	1d 11-10-20	11-09-20	C00108424DB92 - Faving	0d 0d							nal Traffic Shift Gan	1 1
C.6.5	998	Mill & Overlay Sta 238 to B-679	5d 10-15-20	10-21-20	C00108424DB92 - Paving	0d							& Overlay Sta 238 t	1 1
C.6.5	999	Final Striping Sta 238+D588 to B-679		10-27-20	C00108424DB92 - Paving	0d	1-1-1-					·inn	l Striping Sta 238+I	
			. '		<u>'</u>	<u> </u>								

Actual Level of Effort Remaining Work ♦ Milestone

1					Floatio	
2	Reltway Technical Proposal	994d 11-03-17	09-02-21		0d	O NO DIEMAMINASONDIEMAMINASONDIEMAMINASONDIEMAMIN
1	Bellway Technical Froposal	994d 11-03-17	09-02-21		00	
1 3 CTB Approval / No 1 359 Start Construction 1 4 Design-Build Contr 1 464 Start Construction 1 5 Notice to Proceed 1 7 Final Completion - 0108424DB92.B I-66 EBW Design Phase C00108424DB92.B.3 Design C00108424DB92.B.3 Design C00108424DB92.B.3 Lesign Waivers & Exceptions B.3.1 23 Verify Approved DE B.3.1 25 Agency Review an B.3.1 26 Update & Resubmi B.3.1 27 Agency Review & A C00108424DB92.B.3.4 Roadway Design C00108424DB92.B.3.4.1 Develop ROW Plans B.3.4.1 75 Right-of-Way/Road B.3.4.1 81 Submit ROW Plans B.3.4.1 82 VDOT Review and B.3.4.1 83 Address Comment B.3.4.1 84 Design QA/QC RC C00108424DB92.B.3.4.2 Segment 1 A & B - Sta 129 to C00108424DB92.B.3.4.2 Segment 1 A & B - Sta 129 to C00108424DB92.B.3.4.2 Segment 1 A & B - Sta 129 to C00108424DB92.B.3.6.1 Segment 1 Retaining Walls S B.3.4.2.2 107 Develop Segment B.3.4.2.2 108 Design QA/QC Seg B.3.4.2.2 111 Address Comment C00108424DB92.B.3.6 Retaining Wall Design C00108424DB92.B.4 Environmental C00108424DB92.B.4 Environmental C00108424DB92.B.4 Environmental C00108424DB92.B.4 Environmental C00108424DB92.B.4 Environmental C00108424DB92.B.7 Public Involveme	of Intent to Award	0d 11-03-17	09-02-21	C00108424DB92 - 5 day	Od	Notice of Intent to Award
Start Construction Start C		0d 11-05-17 0d 12-06-17		C00108424DB92 - 7 day	0d	◆ CTB Approval / Notice of Award
4	•	1d 06-05-18	06-05-18	C00108424DB92 - 5 day	19d	Start Construction
		0d 01-05-18	00 00 10	C00108424DB92 - 5 day	Od -	◆ Design-Build Contract Execution
	Construction I-66 EDA	1d 10-01-20*	10-01-20	C00108424DB92 - 5 day	0d	■ Start Construction I-66 Et
7		1d 01-08-18	01-08-18	C00108424DB92 - 5 day	0d	Notice to Proceed
CO0108424DB92.B. Ge EBW Design Phase CO0108424DB92.B.3 Design Waivers & Exceptions	Completion - September 2, 2021	0d	09-02-21	C00108424DB92 - 7 day	0d	
B.3.1	a process approved by a	931d 01-08-18	08-03-21		Od	
B.3.1 23 Verify Approved DE B.3.1 24 Complete New Exc B.3.1 25 Agency Review an B.3.1 26 Update & Resubmi B.3.1 27 Agency Review & A CO0108424DB92.B.3.4 Roadway Design C00108424DB92.B.3.4.1 Develop ROW Plans B.3.4.1 75 Right-of-Way/Road B.3.4.1 81 Submit ROW Plans B.3.4.1 82 VDOT Review and B.3.4.1 83 Address Comment B.3.4.1 84 Design QA/QC RC C00108424DB92.B.3.4.2 Segment 1 A & B - Sta 129 tc C00108424DB92.B.3.4.2.2 Roadway Plan Develop B.3.4.2.2 105 Develop Segment B.3.4.2.2 106 Develop Segment B.3.4.2.2 107 Develop Segment B.3.4.2.2 108 Design QA/QC Segment B.3.4.2.2 111 Address Comment C00108424DB92.B.3.6 Retaining Wall Design C00108424DB92.B.3.6.1 Segment 1 Retaining Walls Segment B.3.6.1 220 Submit RW 1 & RV B.3.6.1 221 VDOT/FHWA Rev B.3.6.1 222 Address Comment C00108424DB92.B.4 Environmental C00108424DB92.B.4 Environmental C00108424DB92.B.4.3.1 Environmental Permit applicate B.4.3.1 276 Request EQ-201 N C00108424DB92.B.4.3.2 Issuance & Approval of Envir B.4.3.2 281 Agency Reviews a B.4.3.2 283 VDOT Review and B.4.3.2 284 VDOT Review and B.4.3.3 Public Information I		94d 01-08-18	05-17-18		21d	V C00108424DB92B;3 Design
B.3.1	ceptions		04-09-18		22d	▼ C00108424DB92.B.3.1 Design Waivers & Exceptions
B.3.1 25 Agency Review an B.3.1 26 Update & Resubmi B.3.1 27 Agency Review & A CO0108424DB92.B.3.4 Roadway Design C00108424DB92.B.3.4.1 Develop ROW Plans B.3.4.1 75 Right-of-Way/Road B.3.4.1 81 Submit ROW Plans B.3.4.1 82 VDOT Review and B.3.4.1 83 Address Comment B.3.4.1 84 Design QA/QC ROC C00108424DB92.B.3.4.2 Segment 1 A & B - Sta 129 to C00108424DB92.B.3.4.2.2 Roadway Plan Develop Segment B.3.4.2.2 105 Develop Segment B.3.4.2.2 106 Develop Segment B.3.4.2.2 107 Develop Segment B.3.4.2.2 108 Design QA/QC Segment B.3.4.2.2 111 Address Comment C00108424DB92.B.3.6 Retaining Wall Design C00108424DB92.B.3.6 Reta	Approved DEs and DWs Implementation & Mitigation Measures	5d 01-23-18	01-29-18	C00108424DB92 - 5 day	22d	Verify Approved DEs; and DWs Implementation & Mitigation Measures:
B.3.1	ete New Exception(s)/Waiver(s) Application & Submit	15d 01-30-18	02-19-18	C00108424DB92 - 5 day	22d	Complete New Exception(s)/Waiver(s);Application & Submit
B.3.1	y Review and Meeting	21d 02-19-18	03-12-18	C00108424DB92 - 7 day	30d	☐ 'Agency Review and Meeting
B.3.1 27 Agency Review & A	e & Resubmit Exception(s)/Waiver(s)	5d 03-13-18	03-19-18	C00108424DB92 - 5 day	21d	Update & Resubmit Exception(s)/Waiver(s)
C00108424DB92.B.3.4 Roadway Design C00108424DB92.B.3.4.1 Develop ROW Plans B.3.4.1 75 Right-of-Way/Road B.3.4.1 82 VDOT Review and B.3.4.1 83 Address Comment B.3.4.1 84 Design QA/QC RO C00108424DB92.B.3.4.2 Segment 1 A & B - Sta 129 to C00108424DB92.B.3.4.2.2 Roadway Plan Develop B.3.4.2.2 105 Develop Segment B.3.4.2.2 106 Develop Segment B.3.4.2.2 107 Develop Segment B.3.4.2.2 108 Design QA/QC Segment B.3.4.2.2 111 Address Comment C00108424DB92.B.3.6 Retaining Wall Design C00108424DB92.B.3.6 Retaining Wall Design C00108424DB92.B.3.6.1 Segment 1 Retaining Walls Segment B.3.6.1 220 Submit RW 1 & RV B.3.6.1 221 VDOT/FHWA Revi B.3.6.1 222 Address Comment C00108424DB92.B.4.3 Environmental C00108424DB92.B.4.3 Environmental C00108424DB92.B.4.3 Environmental Permits C00108424DB92.B.4.3 Environmental Permit applicate B.4.3.1 276 Request EQ-201 N C00108424DB92.B.4.3.2 Issuance & Approval of Environmental B.4.3.2 281 Agency Reviews and B.4.3.2 283 VDOT Review and B.4.3.2 284 VDOT Review and B.4.3.2 Roadway Plan Develop Reviews and C00108424DB92.B.7 Public Involvement B.7 355 Public Information II B.7 355 Public Information II	y Review & Approval of Exception(s)/Waiver(s)		04-09-18	C00108424DB92 - 7 day	30d	☐ Agency Review & Approval of Exception(s)/Waiver(\$)
B.3.4.1 75		94d 01-08-18	05-17-18		21d	▼ C00108424DB92.B;3.4 Roadway,Design
B.3.4.1 81 Submit ROW Plans B.3.4.1 82 VDOT Review and B.3.4.1 83 Address Comment B.3.4.1 84 Design QA/QC RO C00108424DB92.B.3.4.2 Segment 1 A & B - Sta 129 to C00108424DB92.B.3.4.2.2 Roadway Plan Developr B.3.4.2.2 105 Develop Segment B.3.4.2.2 106 Develop Segment B.3.4.2.2 107 Develop Segment B.3.4.2.2 108 Design QA/QC Segment B.3.4.2.2 111 Address Comment C00108424DB92.B.3.6 Retaining Wall Design C00108424DB92.B.3.6.1 Segment 1 Retaining Walls Segment B.3.6.1 219 Prepare RW 1 & RV B.3.6.1 220 Submit RW 1 & RV B.3.6.1 221 VDOT/FHWA Revi B.3.6.1 222 Address Comment C00108424DB92.B.4.3 Environmental C00108424DB92.B.4.3 Environmental C00108424DB92.B.4.3 Environmental Permits C00108424DB92.B.4.3	lans	94d 01-08-18	05-17-18		21d	▼ C00108424DB92.B;3.4.1 Develop ROW Plans
B.3.4.1 82	of-Way/Roadway Plan Development 1st Submittal	56d 01-08-18	03-26-18	C00108424DB92 - 5 day	0d	Right-of-Way/Roadway Plan Development 1st Submittal
B.3.4.1 84 Design QA/QC RC	ROW Plans 1st Submittal	1d 04-10-18	04-10-18	C00108424DB92 - 5 day	22d	;I Submit ROW Plans 1st Submittal
B.3.4.1 84 Design QA/QC RC CO0108424DB92.B.3.4.2 Segment 1 A & B - Sta 129 to CO0108424DB92.B.3.4.2.2 Roadway Plan Develop RB.3.4.2.2 105 Develop Segment B.3.4.2.2 106 Develop Segment B.3.4.2.2 107 Develop Segment B.3.4.2.2 107 Develop Segment B.3.4.2.2 108 Design QA/QC Segment B.3.4.2.2 111 Address Comment CO0108424DB92.B.3.6 Retaining Wall Design CO0108424DB92.B.3.6.1 Segment 1 Retaining Walls Segment B.3.6.1 219 Prepare RW 1 & RV B.3.6.1 220 Submit RW 1 & RV B.3.6.1 221 VDOT/FHWA Revis B.3.6.1 222 Address Comment CO0108424DB92.B.4 Environmental CO0108424DB92.B.4.3 Environmental Permits CO0108424DB92.B.4.3 Environmental Permits CO0108424DB92.B.4.3 Environmental Permits CO0108424DB92.B.4.3 Environmental Permits CO0108424DB92.B.4.3.1 Environmental Permit applicate B.4.3.1 276 Request EQ-201 N CO0108424DB92.B.4.3.2 Issuance & Approval of Environmental B.4.3.2 281 Agency Reviews a B.4.3.2 283 VDOT Review and B.4.3.2 284 VDOT Review and B.4.3.2 285 Public Information B.7 355 Public Information B.7 357 Pardon Our Dust and B.7 Bardon Our Dust and Bardon Dust and Bardon Our Dust and Bardon Design Pardon Our Dust and Bardon	Review and Comment ROW Plans 1st Submittal	21d 04-10-18	05-01-18	C00108424DB92 - 7 day	30d	VDOT Review and Comment ROW Plans 1st Submittal
C00108424DB92.B.3.4.2 Segment 1 A & B - Sta 129 to C00108424DB92.B.3.4.2.2 Roadway Plan Develop B.3.4.2.2 105 Develop Segment B.3.4.2.2 106 Develop Segment B.3.4.2.2 107 Develop Seg. 1A & B.3.4.2.2 108 Design QA/QC Set. B.3.4.2.2 111 Address Comment C00108424DB92.B.3.6 Retaining Wall Design C00108424DB92.B.3.6.1 Segment 1 Retaining Walls St. B.3.6.1 219 Prepare RW 1 & RV B.3.6.1 220 Submit RW 1 & RV B.3.6.1 221 VDOT/FHWA Revi B.3.6.1 222 Address Comment C00108424DB92.B.4 Environmental C00108424DB92.B.4 Environmental C00108424DB92.B.4.3 Environmental Permits B.4.3.1 276 Request EQ-201 N C00108424DB92.B.4.3.2 Issuance & Approval of Environmental B.4.3.2 281 Agency Reviews a B.4.3.2 283 VDOT Review and B.4.3.2 284 VDOT Review and B.4.3.2 284 VDOT Review and B.4.3.2 285 Public Information I B.7 355 Public Information I B.7 357 Pardon Our Dust a	ss Comments Develop ROW Plans Final	10d 05-02-18	05-15-18	C00108424DB92 - 5 day	21d	Address Comments Develop ROW Plans Final
C00108424DB92.B.3.4.2.2 Roadway Plan Develop B.3.4.2.2 105 Develop Segment B.3.4.2.2 106 Develop Segment B.3.4.2.2 107 Develop Segment B.3.4.2.2 107 Develop Seg. 1A & B.3.4.2.2 108 Design QA/QC Segment B.3.4.2.2 111 Address Comment C00108424DB92.B.3.6.1 Segment 1 Retaining Walls Segment 1 Retaining Wall	QA/QC ROW Plans Final Submittal	2d 05-16-18	05-17-18	C00108424DB92 - 5 day	21d	I Design QA/QC ROW Plans Final Submittal
B.3.4.2.2 105 Develop Segment	- Sta 129 to Sta 172	64d 01-09-18	04-09-18	C00108424DB92 - 5 day	19d	V C00108424DB92.B.3.4.2 Segment 1 A & B - Sta 129 to Sta 172
B.3.4.2.2 106 Develop Segment	an Development	64d 01-09-18	04-09-18	C00108424DB92 - 5 day	19d	V C00108424DB92.B.3.4.2.2 Roadway Plan Development
B.3.4.2.2 107 Develop Seg. 1A & B.3.4.2.2 108 Design QA/QC Seg. B.3.4.2.2 111 Address Comment C00108424DB92.B.3.6.1 Segment 1 Retaining Walls Segmen	p Segment 1A & B Roadway 1st Submittal	30d 01-09-18	02-19-18	C00108424DB92 - 5 day	19d	Develop Segment 1A & B Roadway 1st Submittal
B.3.4.2.2 108 Design QA/QC Set B.3.4.2.2 111 Address Comment C00108424DB92.B.3.6 Retaining Wall Design C00108424DB92.B.3.6.1 Segment 1 Retaining Walls St. B.3.6.1 219 Prepare RW 1 & R B.3.6.1 220 Submit RW 1 & RV B.3.6.1 221 VDOT/FHWA Revision B.3.6.1 222 Address Comment C00108424DB92.B.4 Environmental Permits C00108424DB92.B.4.3 Environmental Permit application B.4.3.1 274 Develop and Submit B.4.3.1 276 Request EQ-201 N C00108424DB92.B.4.3.2 Issuance & Approval of Environmental B.4.3.2 281 Agency Reviews and B.4.3.2 284 VDOT Review and B.4.3.2 285 Public Involvement B.7 355 Public Information B.7 357 Pardon Our Dust at B.7 B.7 357 Pardon Our Dust at B.7 B.7 B.7 B.7 Pardon Our Dust at B.7 B.7 B.7 B.7 Pardon Our Dust at B.7 B.7 B.7 B.7 B.7 Pardon Our Dust at B.7 B.7 B.7 B.7 B.7 B.7 B.7 Pardon Our Dust at B.7	pp Segment 1A & B Drainage/SWM, E&S Plans and Drainage/SWM Report 1st Subr	30d 01-09-18	02-19-18	C00108424DB92 - 5 day	19d	Develop Segment 1A & B Drainage/SWM, E&S Plans and Drainage/SWM Report 1st Submittal
B.3.4.2.2 111 Address Comment C00108424DB92.B.3.6 Retaining Wall Design C00108424DB92.B.3.6.1 Segment 1 Retaining Walls S B.3.6.1 219 Prepare RW 1 & R B.3.6.1 220 Submit RW 1 & RV B.3.6.1 221 VDOT/FHWA Revi B.3.6.1 222 Address Comment C00108424DB92.B.4 Environmental C00108424DB92.B.4.3 Environmental Permits C00108424DB92.B.4.3.1 Environmental Permit applica B.4.3.1 274 Develop and Subm B.4.3.1 276 Request EQ-201 N C00108424DB92.B.4.3.2 Issuance & Approval of Envir B.4.3.2 281 Agency Reviews a B.4.3.2 283 VDOT Review and B.4.3.2 284 VDOT Review and B.4.3.2 284 VDOT Review and B.4.3.2 284 VDOT Review Approval C0108424DB92.B.7 Public Involvement B.7 355 Public Information I B.7 355 Public Information I	pp Seg. 1A & B Sign., Marking, Lighting, Signal Design, ITS/ETC (1B), MOT& TMP (25d 01-16-18	02-19-18	C00108424DB92 - 5 day	19d	Develop Seg. 1A&B Sigh., Marking, Lighting, Signal Design, ITS/ETC (1B), MOT&TMP (Traffic) 1st Submittal
C00108424DB92.B.3.6 Retaining Wall Design C00108424DB92.B.3.6.1 Segment 1 Retaining Walls S B.3.6.1 219 Prepare RW 1 & R B.3.6.1 220 Submit RW 1 & RV B.3.6.1 221 VDOT/FHWA Revi B.3.6.1 222 Address Comment C00108424DB92.B.4 Environmental C00108424DB92.B.4.3 Environmental Permits C00108424DB92.B.4.3.1 Environmental Permit applica B.4.3.1 274 Develop and Subm B.4.3.1 276 Request EQ-201 N C00108424DB92.B.4.3.2 Issuance & Approval of Envir B.4.3.2 281 Agency Reviews a B.4.3.2 283 VDOT Review and B.4.3.2 284 VDOT Review and B.4.3.2 284 VDOT Review Approval 00108424DB92.B.7 Public Involvement B.7 355 Public Information 1 B.7 355 Public Information 1 B.7 B.7 357 Pardon Our Dust at	QA/QC Segment 1A & B 1st Submittal	5d 02-20-18	02-26-18	C00108424DB92 - 5 day	19d	Design QA/QC Segment 1A & B 1st Submittal
C00108424DB92.B.3.6.1 Segment 1 Retaining Walls S	ss Comments Develop Segment 1A & B Roadway Final Submittal	10d 03-26-18	04-09-18	C00108424DB92 - 5 day	19d	Address Comments Develop Segment 1A & B Roadway Final Submittal
B.3.6.1 219 Prepare RW 1 & R B.3.6.1 220 Submit RW 1 & RV B.3.6.1 221 VDOT/FHWA Rev B.3.6.1 222 Address Comment 00108424DB92.B.4 Environmental C00108424DB92.B.4.3 Environmental Permits C00108424DB92.B.4.3.1 Environmental Permit applical B.4.3.1 274 Develop and Submit B.4.3.1 276 Request EQ-201 N C00108424DB92.B.4.3.2 Issuance & Approval of Envir B.4.3.2 281 Agency Reviews a B.4.3.2 283 VDOT Review and B.4.3.2 284 VDOT Rvw.&Approx 00108424DB92.B.7 Public Involvement B.7 355 Public Information B.7 357 Pardon Our Dust at	1	30d 02-27-18	04-09-18		19d	V C00108424DB92.B.3.6 Retaining Wall Design
B.3.6.1 220 Submit RW 1 & RV B.3.6.1 221 VDOT/FHWA Rev B.3.6.1 222 Address Comment 00108424DB92.B.4 Environmental C00108424DB92.B.4.3 Environmental Permits C00108424DB92.B.4.3.1 Environmental Permit applica B.4.3.1 274 Develop and Subm B.4.3.1 276 Request EQ-201 N C00108424DB92.B.4.3.2 Issuance & Approval of Envir B.4.3.2 281 Agency Reviews a B.4.3.2 283 VDOT Review and B.4.3.2 284 VDOT Review and B.4.3.2 284 VDOT Review Approval of Envir B.4.3.2 285 Public Involvement B.7 355 Public Information I B.7 355 Public Information I B.7 357 Pardon Our Dust at	ning Walls Sta 130+50 to 131 (RW 1) & Sta 146 to 147+50 (RW 2)	30d 02-27-18	04-09-18		19d	C00108424DB92.B.3.6.1 Segment 1 Retaining Walls \$ta;130+50 to 131; (RW;1) & \$ta;146 to 147+50 (RW;2)
B.3.6.1 221 VDOT/FHWA Review	e RW 1 & RW 2 Preliminary Submission	4d 02-27-18	03-02-18	C00108424DB92 - 5 day	19d	prepare RW 1 & RW 2 Preliminary Submission
B.3.6.1 222 Address Comment	RW 1 & RW 2 Preliminary Submission	1d 03-05-18	03-05-18	C00108424DB92 - 5 day	19d	Submit RW:1 & RW 2 Preliminary Submission
C00108424DB92.B.4 Environmental C00108424DB92.B.4.3 Environmental Permits	/FHWA Review, Comment & Approve RW1 & RW 2 Preliminary Submission	21d 03-05-18	03-26-18	C00108424DB92 - 7 day	28d	. П. VDQT/FHWA Review, Comment;& Approve RW1 & RW;2 Preliminary Suḥmission
C00108424DB92.B.4.3 Environmental Permits C00108424DB92.B.4.3.1 Environmental Permit applica B.4.3.1 274 Develop and Subm B.4.3.1 276 Request EQ-201 N C00108424DB92.B.4.3.2 Issuance & Approval of Envir B.4.3.2 281 Agency Reviews a B.4.3.2 283 VDOT Review and B.4.3.2 284 VDOT Review Approval of Envir B.4.3.2 284 VDOT Review and C00108424DB92.B.7 Public Involvement B.7 355 Public Information I B.7 357 Pardon Our Dust at	ss Comments and Prepare RW 1 & RW 2 Final Plans (Stage II) Submission	9d 03-27-18	04-09-18	C00108424DB92 - 5 day	19d	☐ Address Comments and Prepare RW 1 & RW 2 Final Plans (Stage II) Submission
C00108424DB92.B.4.3.1 Environmental Permit applica B.4.3.1 274 Develop and Subm B.4.3.1 276 Request EQ-201 N C00108424DB92.B.4.3.2 Issuance & Approval of Envir B.4.3.2 281 Agency Reviews a B.4.3.2 283 VDOT Review and B.4.3.2 284 VDOT Rvw.&Approv 00108424DB92.B.7 Public Involvement B.7 355 Public Information B.7 357 Pardon Our Dust a		41d 04-10-18	06-06-18		26d	C00108424DB92;B.4 Environmental
B.4.3.1 274 Develop and Subm B.4.3.1 276 Request EQ-201 N C00108424DB92.B.4.3.2 Issuance & Approval of Envir B.4.3.2 281 Agency Reviews a B.4.3.2 283 VDOT Review and B.4.3.2 284 VDOT Rvw.&Approx 00108424DB92.B.7 Public Involvement B.7 355 Public Information B.7 357 Pardon Our Dust at	s	41d 04-10-18	06-06-18		26d	V → V C00108424DB92;B.4.3; Environmental Permits
B.4.3.1 276 Request EQ-201 N C00108424DB92.B.4.3.2 Issuance & Approval of Envir B.4.3.2 281 Agency Reviews a B.4.3.2 283 VDOT Review and B.4.3.2 284 VDOT Rvw.&Approx 00108424DB92.B.7 Public Involvement B.7 355 Public Information B.7 357 Pardon Our Dust at	ermit applications	27d 04-10-18	05-16-18	C00108424DB92 - 5 day	25d	C00108424DB92.B:4.3.1; Environmental Permit applications
C00108424DB92.B.4.3.2 Issuance & Approval of Envii B.4.3.2 281 Agency Reviews a B.4.3.2 283 VDOT Review and B.4.3.2 284 VDOT Rvw.&Appro 00108424DB92.B.7 Public Involvement B.7 355 Public Information B.7 357 Pardon Our Dust a	p and Submit VPDES Stormwater General Permit Application & SWPPP Segment 1	8d 04-10-18	04-19-18	C00108424DB92 - 5 day	19d	□ Develop and Submit VPDES Stormwater General Permit Application & SWPPP Segment 1A & B
B.4.3.2 281 Agency Reviews a B.4.3.2 283 VDOT Review and B.4.3.2 284 VDOT Rvw.&Appro 00108424DB92.B.7 Public Involvement B.7 355 Public Information B.7 357 Pardon Our Dust a	st EQ-201 NEPA Re-evaluation for ROW	1d 05-16-18	05-16-18	C00108424DB92 - 5 day	25d	I Request EQ-201 NEPA Re-evaluation for ROW
B.4.3.2 283 VDOT Review and VDOT Revi	oval of Environmental Permits	48d 04-19-18	06-06-18	C00108424DB92 - 7 day	36d	C00108424DB92;B.4.3;2 Issuance & Approval of Environmental Permits
B.4.3.2 284 VDOT Rvw.&Appro 00108424DB92.B.7 Public Involvement B.7 355 Public Information B.7 357 Pardon Our Dust at	y Reviews and Issuance of VPDES Stormwater General Permit & SWPPP Segmer	25d 04-19-18	05-14-18	C00108424DB92 - 7 day	27d	Agency Reviews and Issuance of VPDES Stormwater General Permit & SWPPP Segment 1A&B-Hold Point
B.7 355 Public Information B.7 357 Pardon Our Dust at	Review and Approve EQ-201 NEPA Re-evaluation for ROW - Hold Point	21d 05-16-18	06-06-18	C00108424DB92 - 7 day	36d	□ VDOT Review and Approve EQ+201 NEPA Re-evaluation for RQW - Hold Point
B.7 355 Public Information B.7 357 Pardon Our Dust a	Rvw.&Approve EQ-200 NEPA Re-eval.& EQ-103 NEPA Certify/Commitments for C	21d 05-14-18	06-04-18	C00108424DB92 - 7 day	27d	☐ VDOT; Ryw.8Approve EQ+200 NEPA Re-eval.& EQ-103 NEPA Certify/Commitments for Const. Segment 1.
B.7 357 Pardon Our Dust a		846d 04-05-18	08-03-21	C00108424DB92 - 5 day	0d	
	Information Preparation & Release and Content for Project Website	846d 04-05-18	08-03-21	C00108424DB92 - 5 day	0d	
108424DB92 O. I-66 EDA Design Phase	Our Dust and Other Stakeholders Meetings	846d 04-05-18	08-03-21	C00108424DB92 - 5 day	0d	
100 12 1BB02.0 1 00 EB/(B001g)11 11000		931d 01-08-18	08-03-21		0d	
00108424DB92.O.2 Design		107d 01-08-18	06-06-18		26d	C00108424DB92;O.2 Design
C00108424DB92.O.2.1 Design Waivers & Exceptions	ceptions	56d 01-22-18	04-09-18		22d	V C00108424DB92.O 2.1 Design Waivers & Exceptions
O.2.1 367 Verify DEs and DW	DEs and DWs Implementation & Mitigation Measures	6d 01-22-18	01-29-18	C00108424DB92 - 5 day	22d	D Verify DEs and DWs Implementation & Mitigation Measures
O.2.1 368 Complete New Exc	ete New Exception(s)/Waiver(s) Application & Submit	15d 01-30-18	02-19-18	C00108424DB92 - 5 day	22d	Complete New Exception(s)/Waiver(s);Application & Submit
O.2.1 369 Agency Review an	y Review and Meeting	21d 02-19-18	03-12-18	C00108424DB92 - 7 day	30d	Agency Review and Meeting

	Activity ID	Activity Name	Original Stort	Finish	Colondar	Total	2018 2019	2020 2021
	Activity ID	Activity Name	Original Start Duration	Finish	Calendar		2018] J A S O N D J F M A M J A S O N D J F M A M	
O.2.1	370	Update & Resubmit Exception(s)/Waiver(s)	5d 03-13-18	03-19-18	C00108424DB92 - 5 day	21d Upda	ate & Resubmit Exception(s)/Waiver(s)	
0.2.1	371	Agency Review & Approval of Exception(s)/Waiver(s)	21d 03-19-18	04-09-18	C00108424DB92 - 7 day	30d 📮 Ag	gency Review & Approval of Exception(s)/Waiver(s)	
C00108424DB92.0	D.2.4 Roadway Do	esign	106d 01-08-18	06-06-18	C00108424DB92 - 5 day	25d	C00108424DB92.O.2.4 Roadway Design	
C00108424DB9	2.O.2.4.1 Line an	nd Grade, Limits of Disturbance	106d 01-08-18	06-06-18	C00108424DB92 - 5 day	25d	▼ C00108424DB92 O.2.4.1 Line and Grade, Limits of Disturbance	
0.2.4.1	398	Develop Roadway Model and Set Line & Grade, Typical Sections & X-Sections	56d 01-08-18	03-26-18	C00108424DB92 - 5 day	22d Dev	velop Roadway Model and Set Line & Grade, Typical Sections & X-Se	ections
0.2.4.1	399	Design QA/QC Roadway Model, Line & Grade, Typical Sections & X-Sections	5d 03-27-18	04-03-18	C00108424DB92 - 5 day	28d 1 Des	sign QA/QC Roadway Model, Line & Grade, Typical Sections & X-Se	ections
0.2.4.1	400	Submit Roadway Model, Line & Grade, Typical Sections & X-Sections	1d 04-04-18	04-04-18	C00108424DB92 - 5 day	28d Sut	bmit Roadway Model, Line & Grade, Typical Sections & X-Sections	
0.2.4.1	406	Roadway Model, Line & Grade, Typical Sections & X-Sections Approved	1d 06-06-18	06-06-18	C00108424DB92 - 5 day	25d	I Roadway Model, Line & Grade, Typical Sections & X-Sections Ap	proved
00108424DB92.O.4	Public Involveme	nt	802d 06-07-18		C00108424DB92 - 5 day	Od '		
0.4	474	Pardon Our Dust and Other Stakeholders Meeting	802d 06-07-18		C00108424DB92 - 5 day	0d		
108424DB92.C Cor	struction		847d 06-06-18	09-02-21		0d		
	519	Punchlist	30d 08-03-21		C00082135DB77 - 7 Day	0d		
00108424DB92.C.2			825d 06-06-18		C00108424DB92 - 5 day	0d		
C.2	572	Project Quality Control	825d 06-06-18		C00108424DB92 - 5 day	0d		
00108424DB92.C.7			218d 10-02-20			Od .		
C00108424DB92.0			218d 10-02-20			Od		<u> </u>
C00108424DB9			204d 10-02-20		00040046:5555	Od Od		A Install Bridge MOT (BCCC)
C.7.6.4	1184	Install Bridge MOT (B686)	2d 10-02-20	_	C00108424DB92 - 5 day	Od Od		I Install Bridge MOT (B686)
C.7.6.4	1199	Install Rt 7 MOT (B686)	2d 10-06-20		C00108424DB92 - 5 day	0d		- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
C.7.6.4	1200	Demo Existing Median Barrier & Attenuator (B686)	3d 10-08-20		C00108424DB92 - 5 day	Od Od	\$- 4 -4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4	Demo Existing Median Bar
C.7.6.4 C.7.6.4	1201	Install SOE (B686)	10d 10-13-20		C00108424DB92 - 5 day	Od Od		■ Install SOE (B686) ■ Excavate for Pier (B686)
C.7.6.4 C.7.6.4	1202 1203	Excavate for Pier (B686)	2d 10-27-20		C00108424DB92 - 5 day C00108424DB92 - 5 day	Od		Install Pier Foundation (I
		Install Pier Foundation (B686)	10d 10-29-20		-	Od		Form, Pour, \$trip & Cur
C.7.6.4	1204	Form, Pour, Strip & Cure Pier Pile Cap (B686)	6d 11-12-20	11-19-20	C00108424DB92 - 5 day	0d 0d		Form, Pour, Strip & Cu
C.7.6.4 C.7.6.4	1205	Form, Pour, Strip & Cure Pier Stem (B686)	6d 11-20-20	11-30-20	C00108424DB92 - Bridge	0d	<u></u>	Form, Pour, Strip & Ct
C.7.6.4	1206 1207	Form, Pour, Strip & Cure Pier Cap (B686)	6d 12-01-20 6d 12-09-20		C00108424DB92 - Bridge C00108424DB92 - Bridge	Od		Form, Pour, St
C.7.6.4	1207	Form, Pour, Strip & Cure Pier Beam Seat (B686)	5d 02-18-21	02-17-21		Od		Temporarily R
C.7.6.4 C.7.6.4	1212	Temporarily Relocate VDOT Comm Line (B686) Saw Cut Deck (B686)	1d 02-25-21	02-24-21	C00108424DB92 - 5 day C00108424DB92 - 5 day	Od		Saw Cut Decl
C.7.6.4	1213	Demo Deck and Parapet (B686)	3d 02-26-21		C00108424DB92 - 5 day	Od Od		₽ Demo Deck
C.7.6.4	1214	Extend Slope Protection Abt B (B686)	3d 03-03-21		C00108424DB92 - 5 day	Od	<u>}-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4</u>	Extend Slope
C.7.6.4	1216	Extend Slope Protection Abt A (B686)	3d 03-08-21		C00108424DB92 - 5 day	Od		Extend Slope
C.7.6.4	1217	Erect Girder Line (B686)	4d 03-11-21	03-16-21	C00108424DB92 - 5 day	Od		■ Eriect Girder
C.7.6.4	1217	Install Deck Forms (B686)	5d 03-17-21	03-10-21	C00108424DB92 - 5 day	Od Od		Install Deck
C.7.6.4	1219	Install Overhangs (B686)	6d 03-24-21		C00100424DB92 - 5 day	Od Od		■ Install Ove
C.7.6.4	1220	Form, Pour, Strip & Cure Backwall Abt B Abutment (B686)	6d 04-01-21		C00108424DB92 - 5 day	0d	} - - 	■ Form, Po
C.7.6.4	1221	Form, Pour, Strip & Cure Backwall Abt A Abutment (B686)	6d 04-12-21		C00108424DB92 - 5 day	Od Od		■ Form, Po
C.7.6.4	1222	Install Deck Rebar (B686)	5d 04-20-21		C00108424DB92 - 5 day	Od		I Install D
C.7.6.4	1223	Reconstruct Bridge Joint Abt B (B686)	4d 04-27-21		C00108424DB92 - Bridge	0d		▮ Recons
C.7.6.4	1224	Reconstruct Bridge Joint Abt A (B686)	4d 05-03-21		C00108424DB92 - Bridge	Od		1 Recons
C.7.6.4	1225	Demo for Joint Closure (B686)	4d 05-07-21		C00108424DB92 - 5 day	Od .		I Demo
C.7.6.4	1226	Joint Closure Pour (B686)	4d 05-13-21		C00108424DB92 - Bridge	0d		■ Joint C
C.7.6.4	1227	Pour Deck (B686)	3d 05-19-21		C00108424DB92 - Bridge	0d		l Pour [
C.7.6.4	1228	Deck Curing (B686)	6d 05-24-21		C00108424DB92 - Bridge	0d		■ Deck
C.7.6.4	1229	Form, Pour, Strip & Cure Approach Slab Abt B Abutment (B686)	6d 06-02-21	06-09-21	C00108424DB92 - 5 day	Od		
C.7.6.4	1230	Form, Pour, Strip & Cure Approach Slab Abt AAbutment (B686)	6d 06-10-21	06-17-21	C00108424DB92 - 5 day	0d		■ For
C.7.6.4	1231	Form, Pour, Strip & Cure Parapet (B686)	10d 06-18-21	07-01-21	C00108424DB92 - Bridge	0d		i i i i i i i i i i i i i i i i i i i
C.7.6.4	1232	Strip Overhangs (B686)	5d 07-02-21	07-09-21	C00108424DB92 - 5 day	0d		• S
C.7.6.4	1233	Groove Widened Deck (B686)	3d 07-12-21	07-14-21	C00108424DB92 - 5 day	0d		10
C00108424DB9	2.C.7.6.6 Final St	urface / Landscaping	14d 07-15-21	08-03-21	C00108424DB92 - Paving	0d		
C.7.6.6	1258	Mill & Overlay Ramp A	4d 07-15-21	07-20-21	C00108424DB92 - Paving	0d		0
C.7.6.6	1259	Final Striping Ramp A	3d 07-21-21	07-23-21	C00108424DB92 - Paving	0d		
C.7.6.6	1260	Mill & Overlay Rt 7	4d 07-26-21	07-29-21	C00108424DB92 - Paving	0d		-
C.7.6.6	1261	Final Striping Rt 7	3d 07-30-21	08-03-21	C00108424DB92 - Paving	0d		•
							T.	
Remaining Leve	ol of Effort	Actual Work Critical Remaining		_	ge 2 of 2		Wagman Heavy Civil, Inc.	







Volume I Technical Proposal

September 2017



I-66 Eastbound Widening Inside the Beltway

DESIGN - BUILD



Volume II Conceptual Plans

September 2017

Led by:



In association with:







Section 4.3.1
Conceptual Roadway Plans
I-66 EBW





September 2017









COMMONWEALTH OF VIRGINIA

DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

DESIGN-BUILD PROJECT

I-66 EASTBOUND WIDENING INSIDE THE BELTWAY

FROM: DULLES CONNECTOR ROAD (ROUTE 267) TO: FAIRFAX DRIVE (ROUTE 237)

(F0) 0066-96A-417 NHPP-066-I(356) FHWA 534 DATA 41103 P101, R201, C501 VΑ See Tabulation Below For Section Numbers

> FUNCTIONAL CLASSIFICATION AND TRAFFIC DATA URBAN PRINCIPAL ARTERIAL - FREEWAY (STD GS-5) ROLLING 60 MPH MINIMUM DESIGN SPEED 1-66 EB To: N. GLEBE ROAD ADT (2015) 63,000 EB ADT (2040) 87.900 EB 0,000 (PM) D (%) (design hour) T (%) (design hour) 0.7 See Plan & Profile for horizontal & vertical design speeds

PORTIONS OF THESE PLANS CONTAIN CRITICAL INFRASTRUCTURE INFORMATION/SENSITIVE SECURITY INFORMATION (CII/SSI). UNAUTHORIZED RELEASE OR REPRODUCTION OF THESE DOCUMENTS MAY RESULT IN CIVIL PENALTY OR OTHER ACTION.

Design Exception	Sta. to Sta.	Approval Date
DE-2016-37 Lane Width Reduction	Sta. 250·33 to Sta. 282·45	6/30/17
DE-2016-38 Shoulder Width Reduction On Bridge	Sta. 267•73 to Sta. 268•53	6/30/17
DE-2016-39 Stopping Sight Distance	Sta. 263+80.72 to Sta. 271+89.11	6/30/17
DE-2016-40 Shoulder Width Reduction	Sta. 252.06 to Sta. 279+00	6/30/17

I-66 EBW (BASE SCOPE) PROJECT 0066-96A-417, PIOI, R201, C501 Exist. Toll Gantry DESCRIPTION REFERENCE GEORGE MASON DR.S.B.L STA 312442.511-66 E.B.B. Exist. Toll Gantry Project No. (FO)0066-96A-358 Sta. 283-00.00 I-66 EDA (OPTION 1) B-678 Foirfox B-677 rop. Emergency CITY OF FALLS CHURCH DESCRIPTION REFERENCE STA 19•54.62 GREAT FALLS ST.S.B.L. STA 127•90.80 1-66 E.B.B.L Fairfax County Population 1,142,234 (2015 Census) Arlington County Population 229,164 (2015 Census) Exist. Emergency Pulloff

FC-2 I feet Office

THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DEPARTMENT'S 2016 ROAD AND BRIDGE SPECIFICATIONS, 2016 ROAD

AND BRIDGE STANDARDS, 2009 MUTCD, 2011 VIRGINIA SUPPLEMENT TO

THE MUTCD, 2011 VIRGINIA WORK AREA PROTECTION MANUAL AND AS

AMENDED BY CONTRACT PROVISIONS AND THE COMPLETE ELECTRONIC

*-1-66 EDA (OPTION 1) PDF VERSION OF THE PLAN ASSEMBLY.

Index of Sheets

2A(I) thru 2A(4) I-66 EB Typical Sections

Description of Sheets

Ramps & Trails Typical Sections

Profile Sheet I-66 EB Widening - Trails

Plan Sheet - I-66 EB Widening - Custis Trail Profile Sheet I-66 EB Widening - Trails

Plan Sheet - 3 - Sta.737-67.00 - 14-00.00

Plan Sheet - 4 - Sta. 14-00.00 - 30-78.00

I-66 EDA (OPTION I)

2A(1) - 2A(2)

Plan Sheet - I-66 EB Widening - Sta. 122-50.00 - 132-00.00

Plan Sheet - I-66 EB Widening - Sta.132-00.00 - I46-00.00 Plan Sheet - I-66 EB Widening - Sta. 146-00.00 - 160-00.00

Plan Sheet - I-66 EB Widening - Sta. I60.00.00 - I74.00.00

Plan Sheet - I-66 EB Widening - Sta. 174-00.00 - 186-00.00

Plan Sheet - I-66 EB Widening - Sta. 186-00.00 - 199-00.00

Plan Sheet - I-66 EB Widening - Sta.199-00.00 - 210-00.00 Plan Sheet - I-66 EB Widening - Sta.210.00.00 - 223.00.00

Plan Sheet - I-66 EB Widening - Sta.223-00.00 - 235-00.00

Plan Sheet - I-66 EB Widening - Sta. 235:00.00 - 248:00.00

Plan Sheet - I-66 EB Widening - Sta. 248-00.00 - 262-00.00

Plan Sheet - I-66 EB Widening - Sta. 262-00.00 - 275-00.00

Plan Sheet - I-66 EB Widening - Sta. 275-00.00 - 289-00.00 Plan Sheet - I-66 EB Widening - Sta. 289-00.00 - 303-00.00 Plan Sheet - I-66 EB Widening - Sta. 303-00.00 - 315-01.79

Plan Sheet - I-66 EB Widening - W & O.D.Trail Sta. 50-45.00 - 59-50.00

ALL CURVES ARE TO BE SUPERELEVATED, TRANSITIONED AND WIDENED IN ACCORDANCE WITH STANDARD TC-5.11U AND TC-5.11R, EXCEPT WHERE OTHERWISE NOTED.

0066-96A-493, P101, C501, B686

LENGTH INCLUDING BRIDGE(S) LENGTH EXCLUDING **FOUALITIES** FEDERAL AID PROJECT NO. TYPE FEET FEET FEET MILES MILES NHPP-066-1(356) PENG 108424 PRELIMINARY ENGR., FROM: 0.11 MI, WEST OF GREAT FALLS ST, (RTE, 694) P101 3.644 18403.27 3.485 19242,51 TO: 0,04 MI, EAST OF GEORGE MASON DR, NHPP-066-1(356) 0.032 1-66 E.B. BRIDGE WIDENING OVER WILLIAMSBURG BLVD. B675 B677 NHPP-066-1(356) 108424 223.59 0.042 BRIDGE 1-66 E.B. BRIDGE WIDENING OVER WESTMORELAND ST. BRIDGE 1-66 E.B., BRIDGE WIDENING OVER N., SYCAMORE ST. B678 NHPP-066-1(356) 108424 151.37 0.029 NHPP-066-1(356) 108424 80.53 0.016 BRIDGE 1-66 E.B. BRIDGE WIDENING OVER BON AIR PARK 108424 B680 NHPP-066-1(356) TBO TBD BRIDGE PEDESTRIAN BRIDGE OVER US-29 108424 BRIDGE PEDESTRIAN BRIDGE OVER 1-66 E.B. AT STA, 226-14,49 NHPP-066-1(356) 215.00 0.041 108424 0.032 168,46 NHPP-066-1(356) B683 NHPP-066-1(356) 108424 224.77 0.043 BRIDGE 1-66 WB BRIDGE OVER WESTMORELAND ST 108424 79,24 0,015 BRIDGE 1-66 WB BRIDGE OVER BON AIR PARK CM-066-1(358) PENG 110629 PRELIMINARY ENCR FROM: 0.315 MEWEST OF LEESRURG PIKE (ROLLTE 7) 2133 0,404 1989 0,377 TO: 0,089 MLEAST OF LEESBURG PIKE (ROUTE 7) 110629 BRIDGE ROUTE 7 SB TO 1-66 EB RAMP BRIDGE OVER ROUTE 7

Project Lengths are based on length along I-66 EB Constr. B

Bridge B686 Length is based on as-built plan.

CONCEPTUAL PLANS

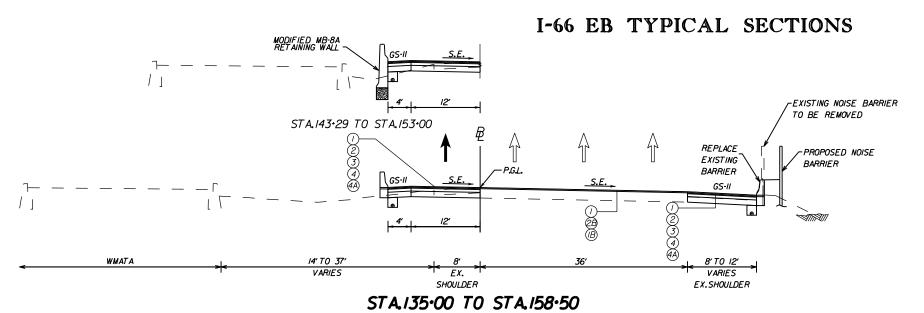
PRELIMINARY

ASTBOUND WIDENING THE BELTWAY INSI

AGMA

SHEET NO.

PAGE NO. Vol ∏-l



WMATA

e Will Identify Limits of Existing ull-Strength Mainline Pavement Prior Saw-Cutting or Setting Barriers to

minimize the number of lane shifts.

WMATA

18' TO 24'

18' TO 24'

VARIES

SHOULDER

STA.129+50 TO STA.130+50

SHOULDER.

STA.128.50 TO STA.135.00

<u>Pavement Legend</u>

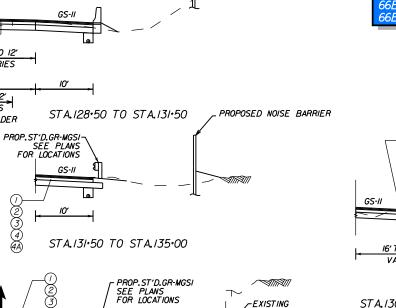
2

(2B)

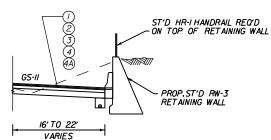
- 2" Asphalt Concrete, Type SM-I2.5E @ 237 Lbs/Sq.Yd.
- (IA)I" Asphalt Concrete, Type SM-4.75A @ II8 Lbs/Sq.Yd.
- \overline{B} Mill Existing Pavement 2" Depth
 - 2" Asphalt Concrete Intermediate Course, Type IM-19.0A @ 240 Lbs/Sq.Yd.
- (2A) 3" Asphalt Concrete Intermediate Course, Type IM-19.0A @ 360 Lbs/Sq.Yd.
 - Variable Depth Asphalt Concrete Intermediate Course, Type IM-19.0A (To be Used for Superelevation Corrections)
- (3) 6" Asphalt Concrete, Type BM-25.0A
- 4 6" Aggregate Base Material, Type I, No. 2IA, Pugmill Mixed with 4% by Weight Hydraulic Cement
- (4A) 6" Cement Stabilized Subgrade with 12% Hydraulic Cement
- (4B) 6" Aggregate Base Material, Type I, No. 2IB

uperelevation > 2 inches correction will be accomplished utilizing a variable depth Asphalt Concrete Intermediate Course Type IM-19.0A for the following horizontal curves:

66EB_5.66EB_6.66EB_7.66EB_ALTIO & 66EB_ALTI4



RETAINING WALL



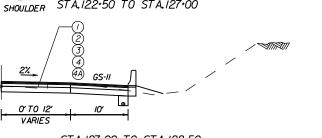
STA,130+00 TO STA,131+00

ndard UD-4 edgedrain shall be provided neath the outside edge of the paved shoulder. odified UD-I shall be provided in lieu of standard D-4 edgedrains for pavement subdrainage in area high ground water, springs, or cuts in excess of feet, the modification consists of wrapping the gregate with geotextile fabric.

CONCEPTUAL PLANS

PRELIMINARY

NOT TO SCALE



GS-II O' TO 12 VARIES * FULL DEPTH SHOULDER BEGINS AT Sta.122.50.00 10' EX. STA.122+50 TO STA.127+00

EXISTING-BARRIER

PROPOSED NOISE BARRIER

O' TO 12' VARIES

8' TO 12'-1 VARIES

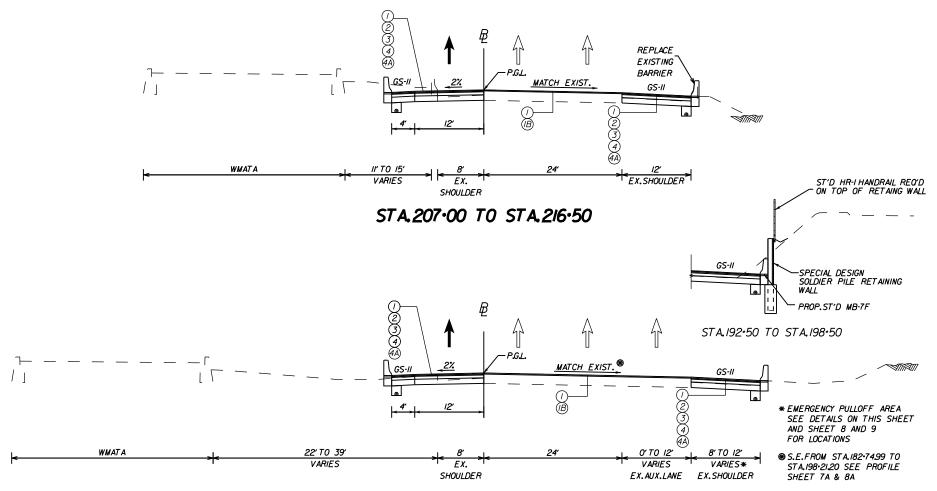
EX.SHOULDER

STA.120.00 TO STA.128.50

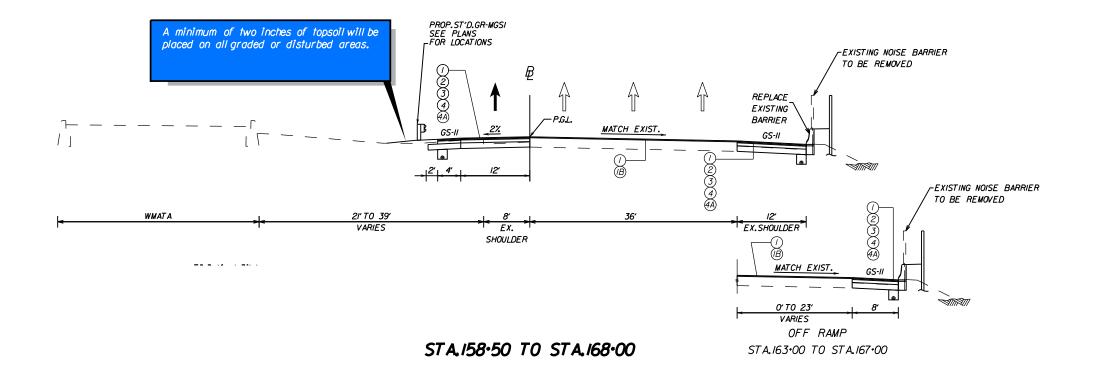
(B)ZB)

STA.127.00 TO STA.128.50

I-66 EB TYPICAL SECTIONS



STA.168.00 TO STA.207.00

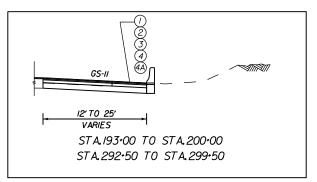


Pavement Legend

4

- (1) 2" Asphalt Concrete, Type SM-12.5E @ 237 Lbs/Sq.Yd.
- (IA) I" Asphalt Concrete, Type SM-4.75A @ II8 Lbs/Sq.Yd.
- (IB) Mill Existing Pavement 2" Depth
- 2" Asphalt Concrete Intermediate Course, Type IM-19.0A @ 240 Lbs/Sq.Yd.
- (2A) 3" Asphalt Concrete Intermediate Course, Type IM-19.0A @ 360 Lbs/Sq.Yd.
- (ZB) Variable Depth Asphalt Concrete Intermediate Course, Type IM-19.0A (To be Used for Superelevation Corrections)
- 3 6" Asphalt Concrete, Type BM-25.0A
 - 6" Aggregate Base Material, Type I, No. 2IA, Pugmill Mixed with 4% by Weight Hydraulic Cement
- 6" Cement Stabilized Subgrade with I2% Hydraulic Cement
- (4B) 6" Aggregate Base Material, Type I, No. 2IB

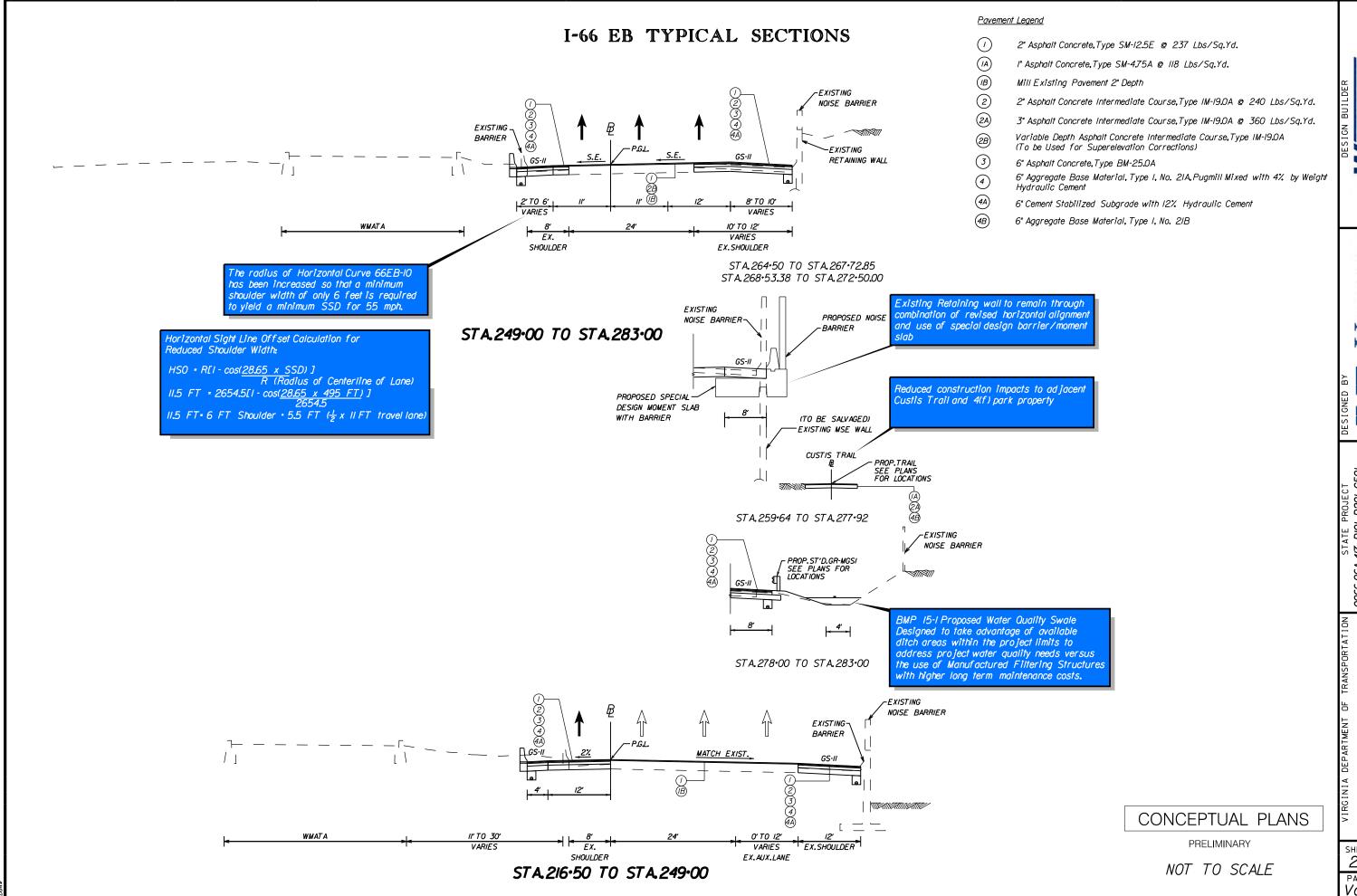
EMERGENCY PULLOFF AREA



CONCEPTUAL PLANS

PRELIMINARY

NOT TO SCALE



MAGMAN

General Construction | Nearcy Ciril | Geotechnical

VOLKERT

ESIGNED BY

STATE PRUJECT 0066-96A-417, P/01, R201, C50/ B675, B677, B678, B679, B680, B681, B682, B683, B684

VIRGINIA DEPARTMENT OF TRANSPORTAT

1-66 EASTBOUND WIDENING

INSIDE THE BELTWAY

SHEET NO. 2A(3)

PAGE NO.

(IB) Mill Existing Pavement 2" Depth

2" Asphalt Concrete Intermediate Course, Type IM-19.0A @ 240 Lbs/Sq.Yd.

2A 3" Asphalt Concrete Intermediate Course, Type IM-19.0A @ 360 Lbs/Sq.Yd.

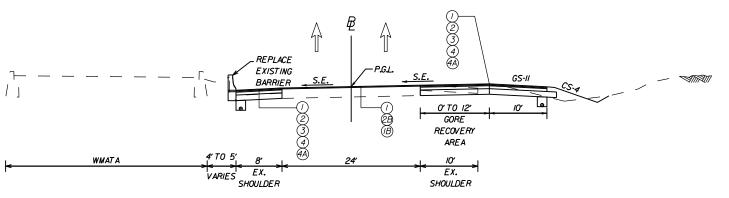
Variable Depth Asphalt Concrete Intermediate Course, Type IM-19.0A (To be Used for Superelevation Corrections)

3 6" Asphalt Concrete, Type BM-25.0A

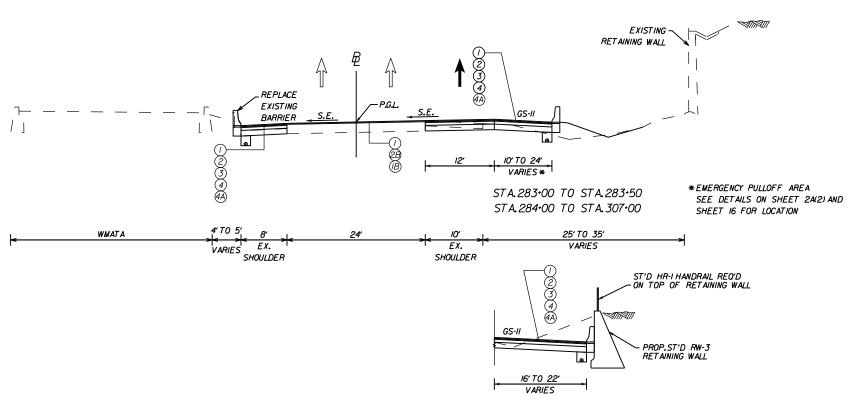
6" Aggregate Base Material, Type I, No. 2IA, Pugmill Mixed with 4% by Weight Hydraulic Cement

(4A) 6" Cement Stabilized Subgrade with 12% Hydraulic Cement

4B) 6" Aggregate Base Material, Type I, No. 2IB



STA.307.00 TO STA.312.42



CONCEPTUAL PLANS

PRELIMINARY

NOT TO SCALE

STA.283.00 TO STA.307.00

STA.283+10 TO STA.284+00

(3)

4

(4B)

(B)Mill Existing Pavement 2" Depth

2 2" Asphalt Concrete Intermediate Course, Type IM-19.0A @ 240 Lbs/Sq.Yd.

3" Asphalt Concrete Intermediate Course, Type IM-19.0A @ 360 Lbs/Sq.Yd.

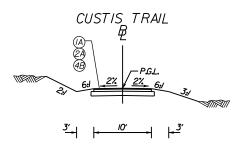
Variable Depth Asphalt Concrete Intermediate Course, Type IM-19.0A (To be Used for Superelevation Corrections)

6" Asphalt Concrete, Type BM-25.0A

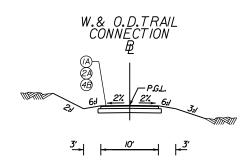
6" Aggregate Base Material, Type I, No. 2IA, Pugmill Mixed with 4% by Weight

(4A) 6" Cement Stabilized Subgrade with 12% Hydraulic Cement

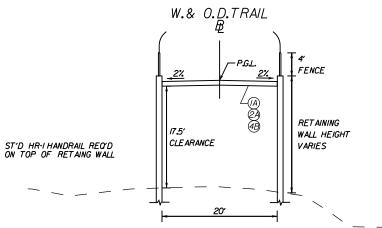
6" Aggregate Base Material, Type I, No. 2IB



CUSTIS TRAIL (AT BON AIR PARK) STA.10.70 TO 15.25 CUSTIS TRAIL CONNECTION STA.20.00 TO 22.30



W.& O.D.TRAIL (FAIRFAX DR) STA.20.00 TO 26.81



W.& O.D.TRAIL (FAIRFAX DR) STA.52.00 TO STA.55.26.91 STA.61.50 TO STA.63.00

l retaining walls shall provide fall protection barriers for safety of maintenance personnel.

> STA.55+26.91 to STA.61+50.00 (SEE BRIDGE PLANS B-680)

ST'D HR-I HANDRAIL REO'D ON TOP OF RETAING WALL -SPECIAL DESIGN SOLDIER PILE RETAINING

I-66 EB TYPICAL SECTIONS

CONCEPTUAL PLANS

PRELIMINARY

NOT TO SCALE



VOLKERT

ASTBOUND WIDENING THE BELTWAY I-66 EA INSIDE

SHEET NO. 2A(5)

O'TO 4

VARIES

PROP.ST'D.GR-MGSI -SEE PLAN FOR LOCATIONS

RAMP 2 (FAIRFAX DR)

STA.27.00 TO STA.30.00

RAMP 2 (FAIRFAX DR) STA.22.50 TO STA.27.00

RAMP I (LEE HIGHWAY)

STA.18.50 TO STA.21.57

RAMP I (LEE HIGHWAY)

STA.12.00 TO STA.18.50

MATCH EXIST

-P.G.L.

MATCH EXIST.

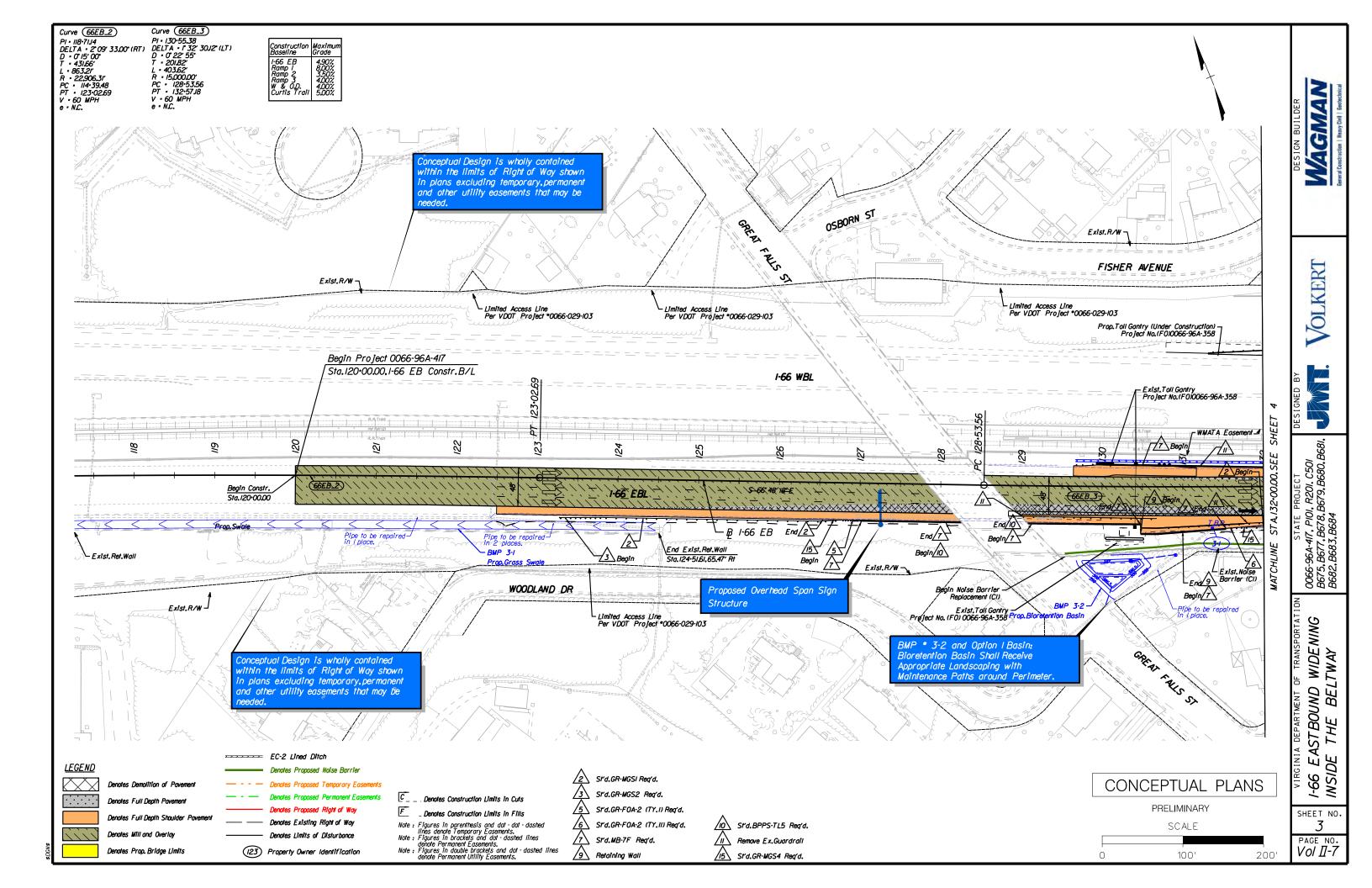
MATCH EXIST.

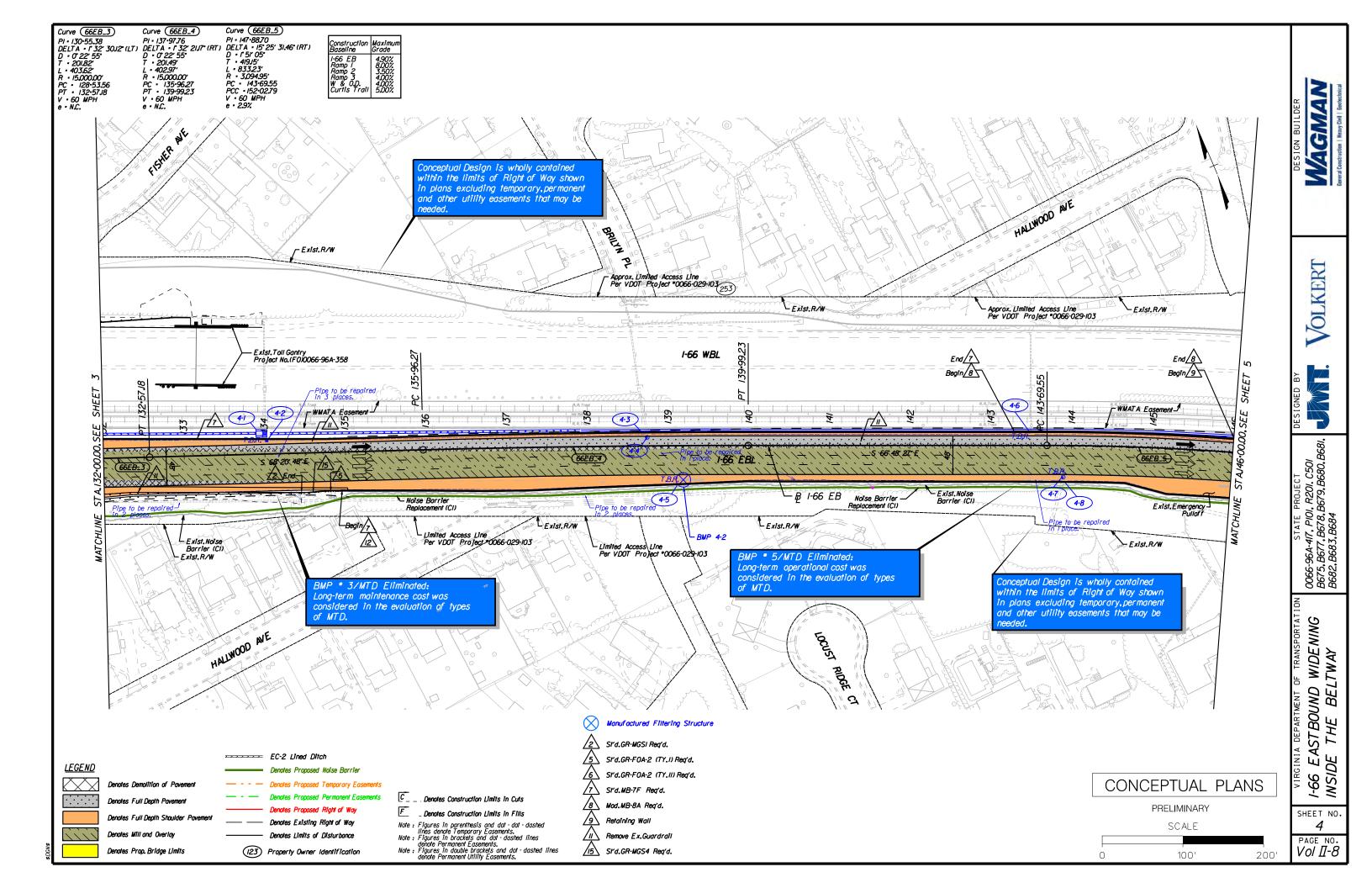
PROP.ST'D MB-7F

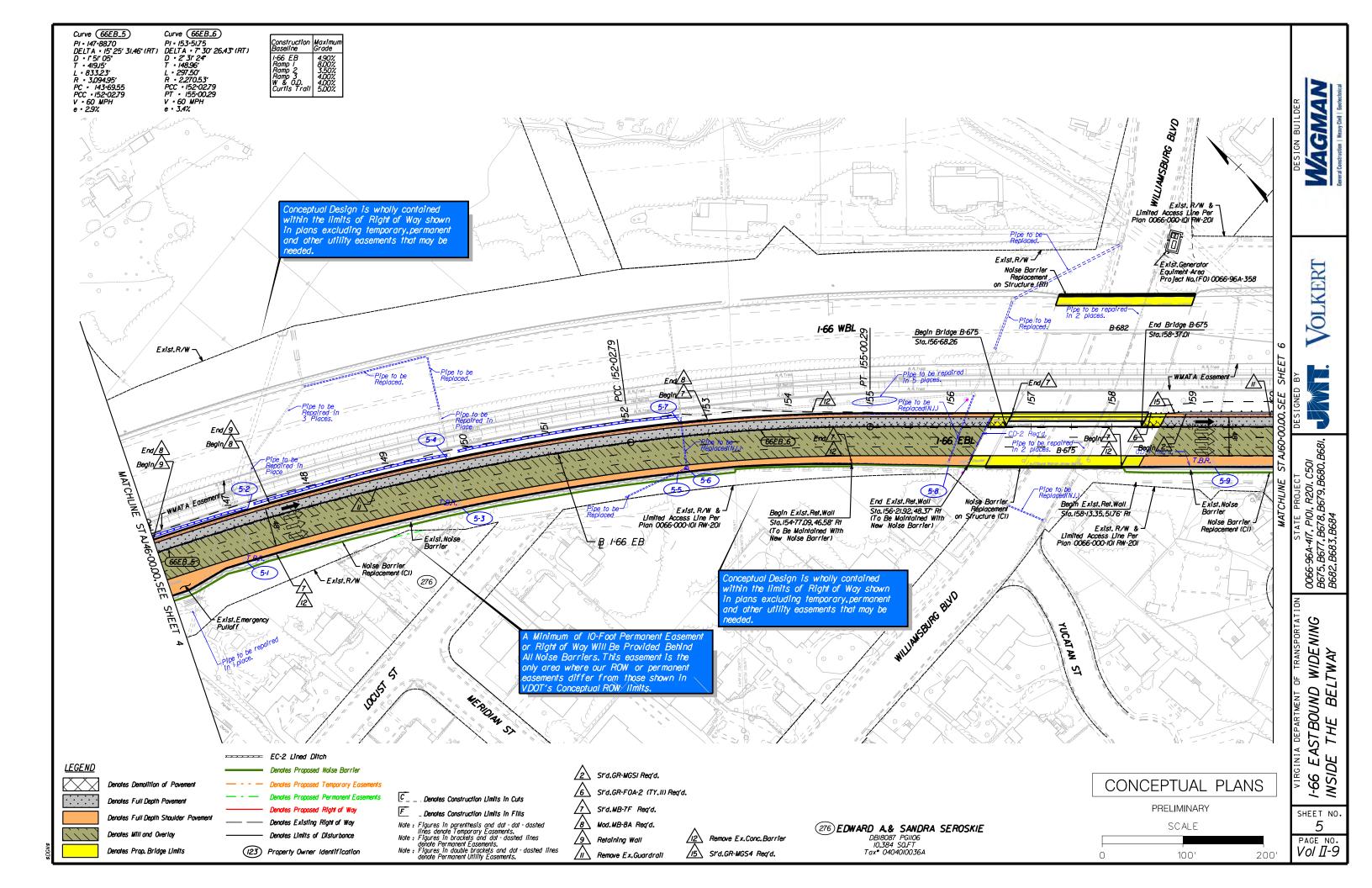
SEE PLANS FOR

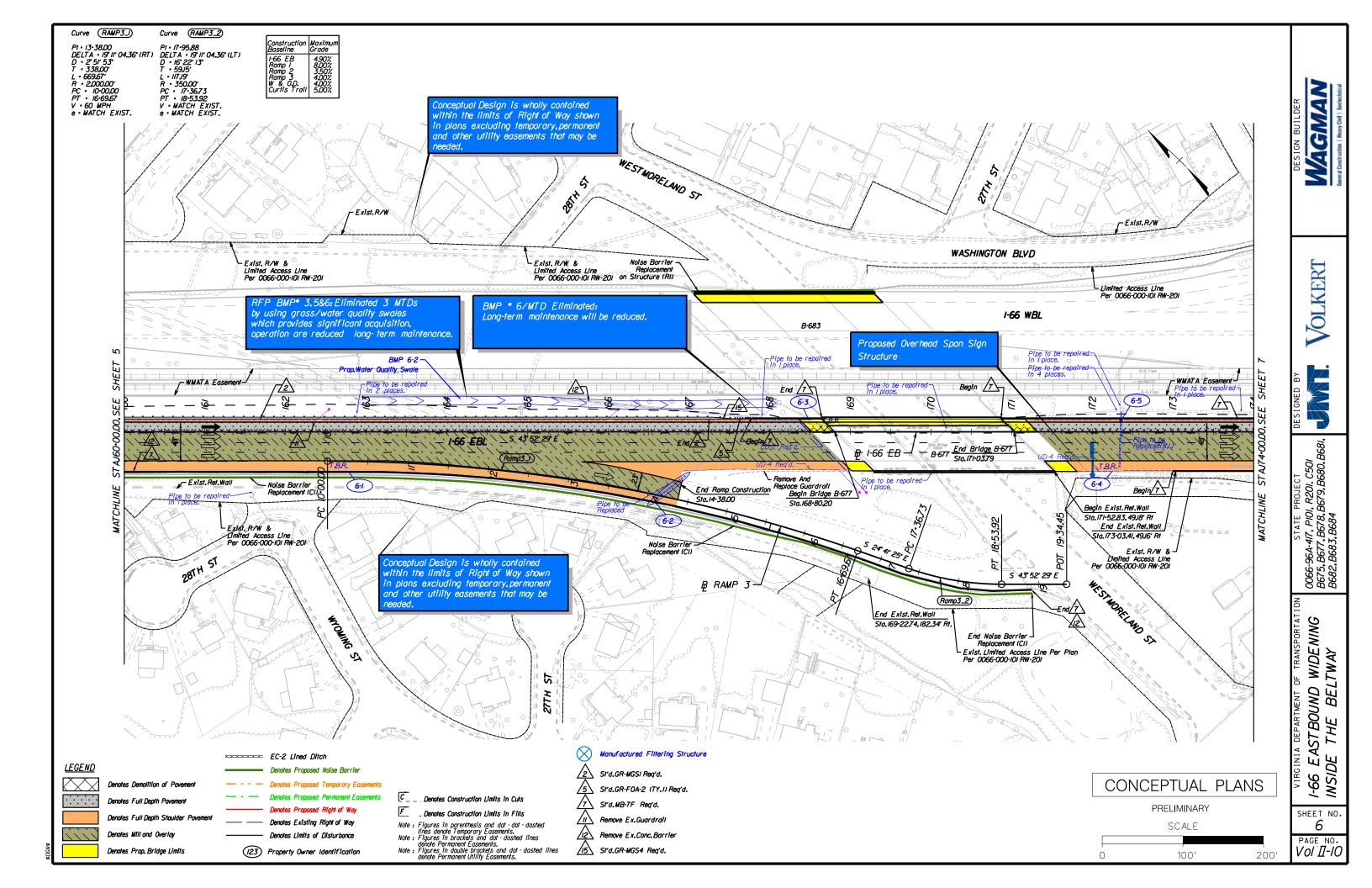
LOCATIONS

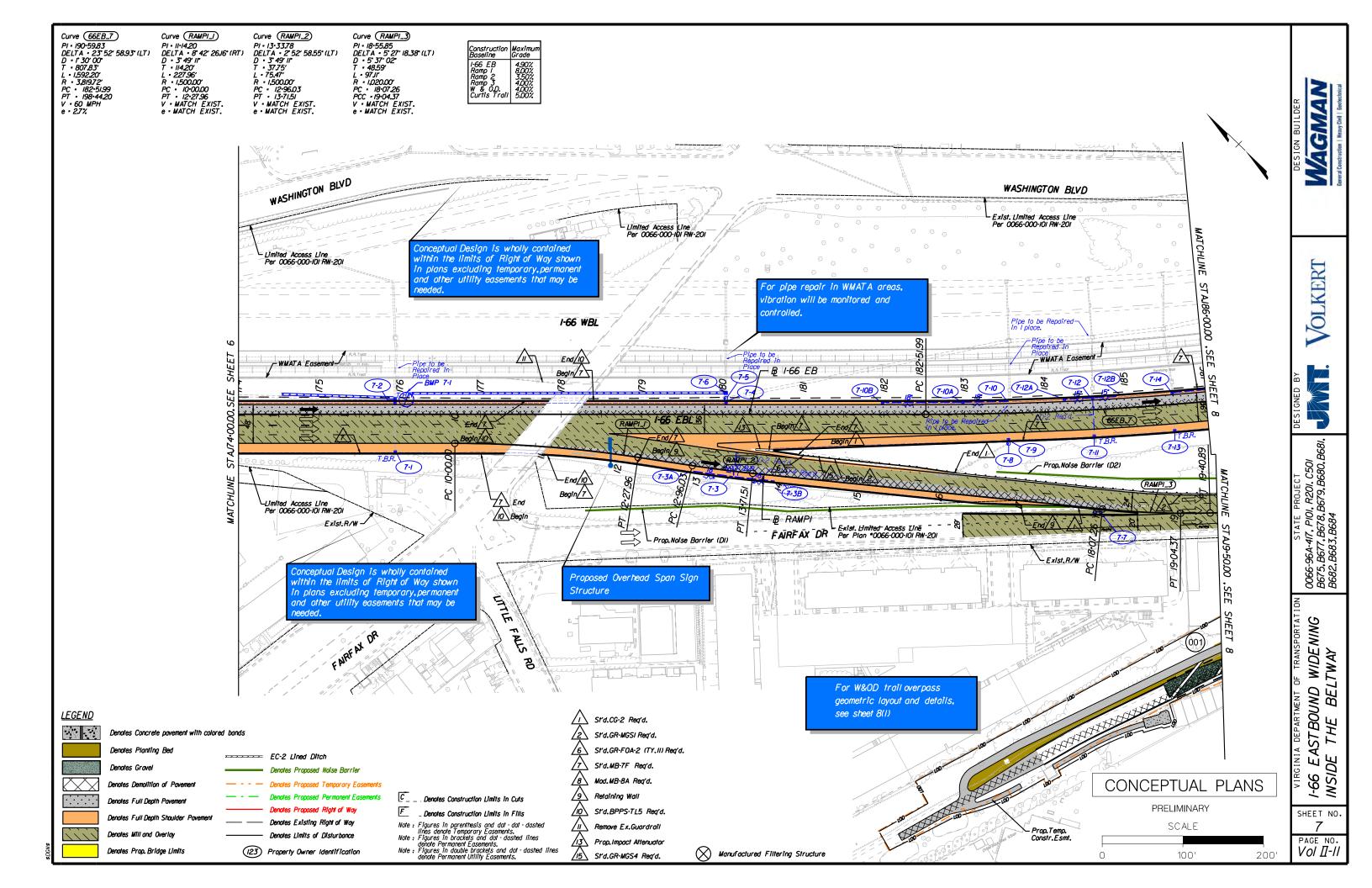
FXISTING RETAINING WALL TO REMAIN

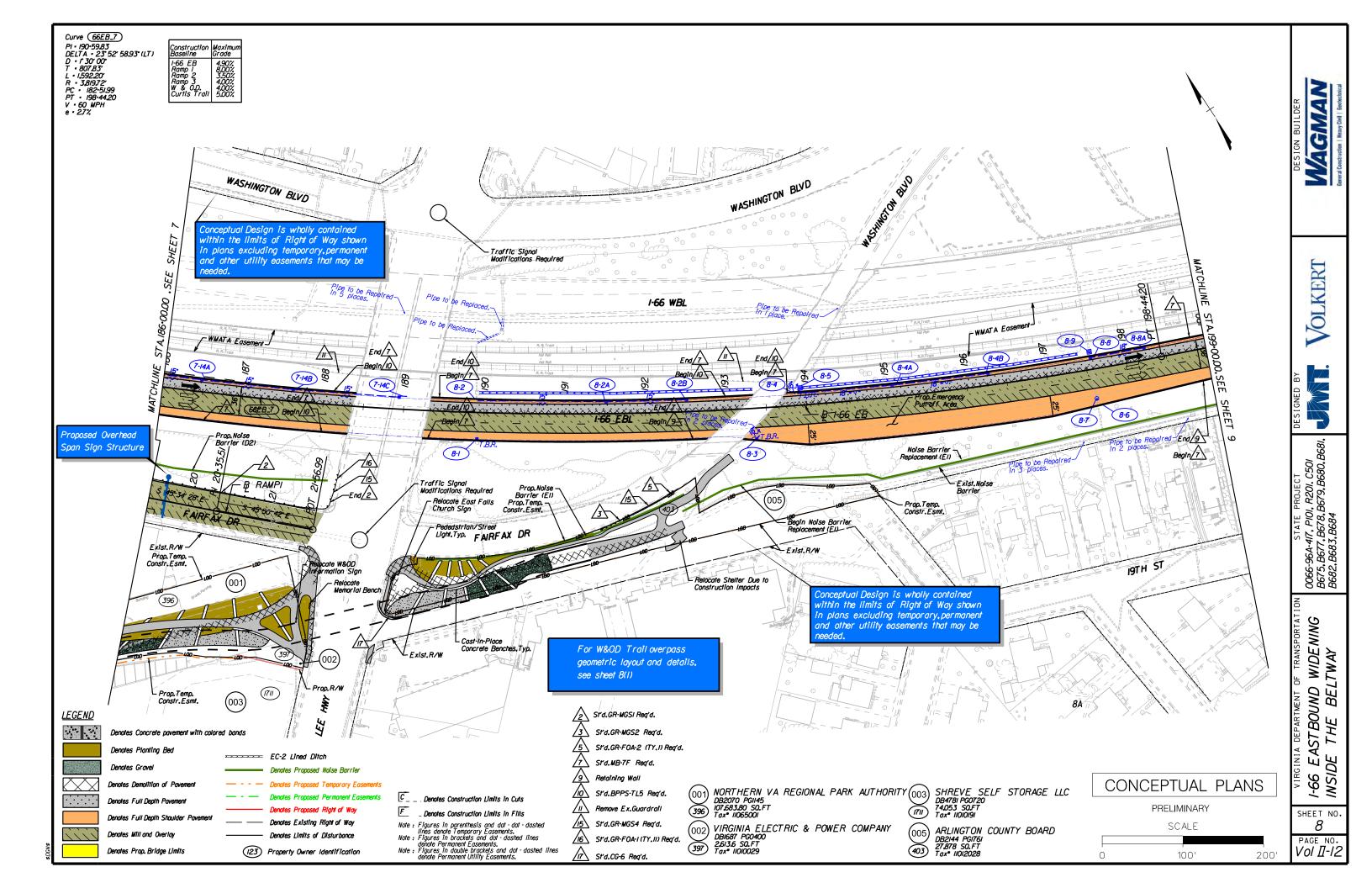


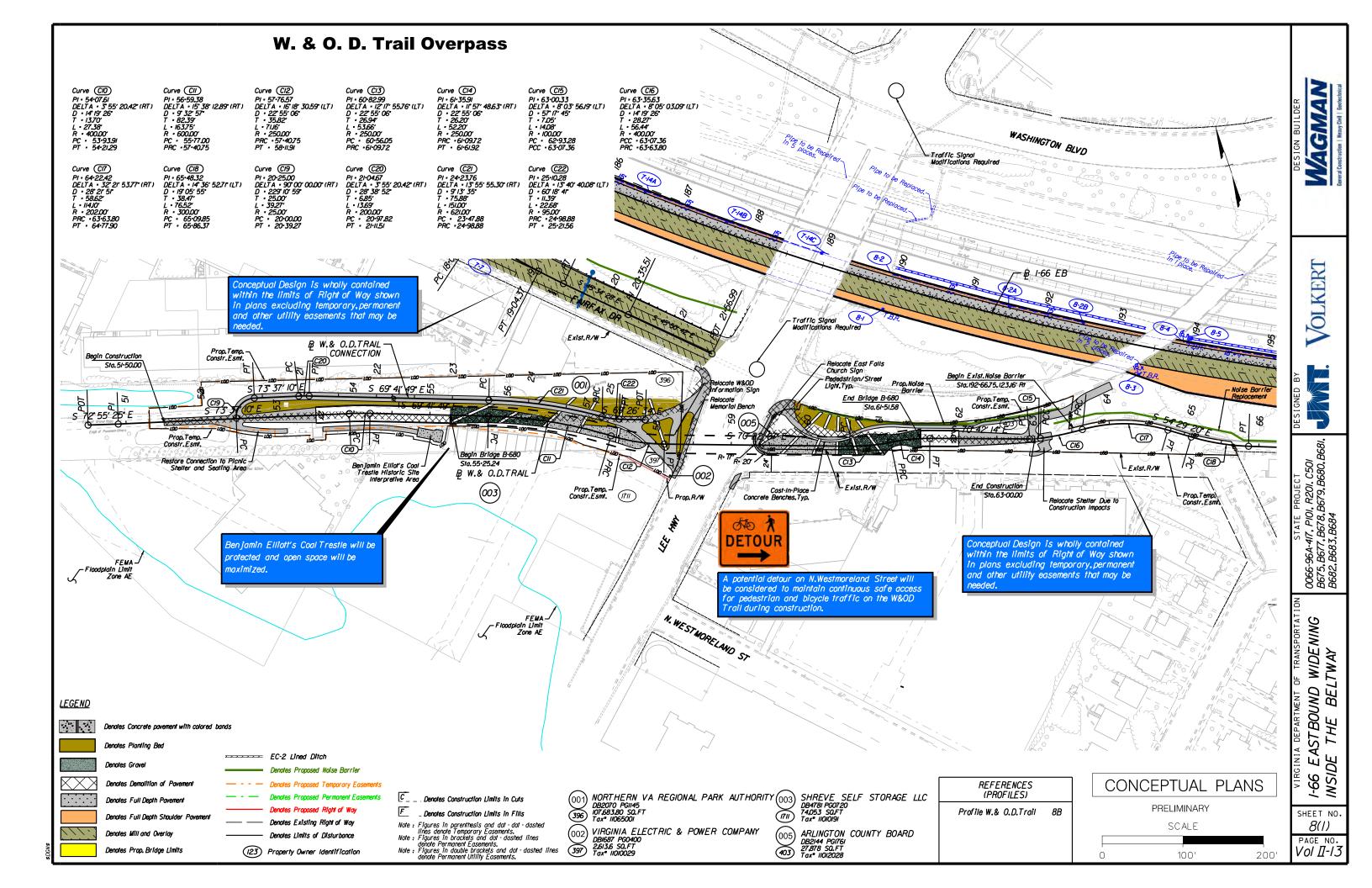


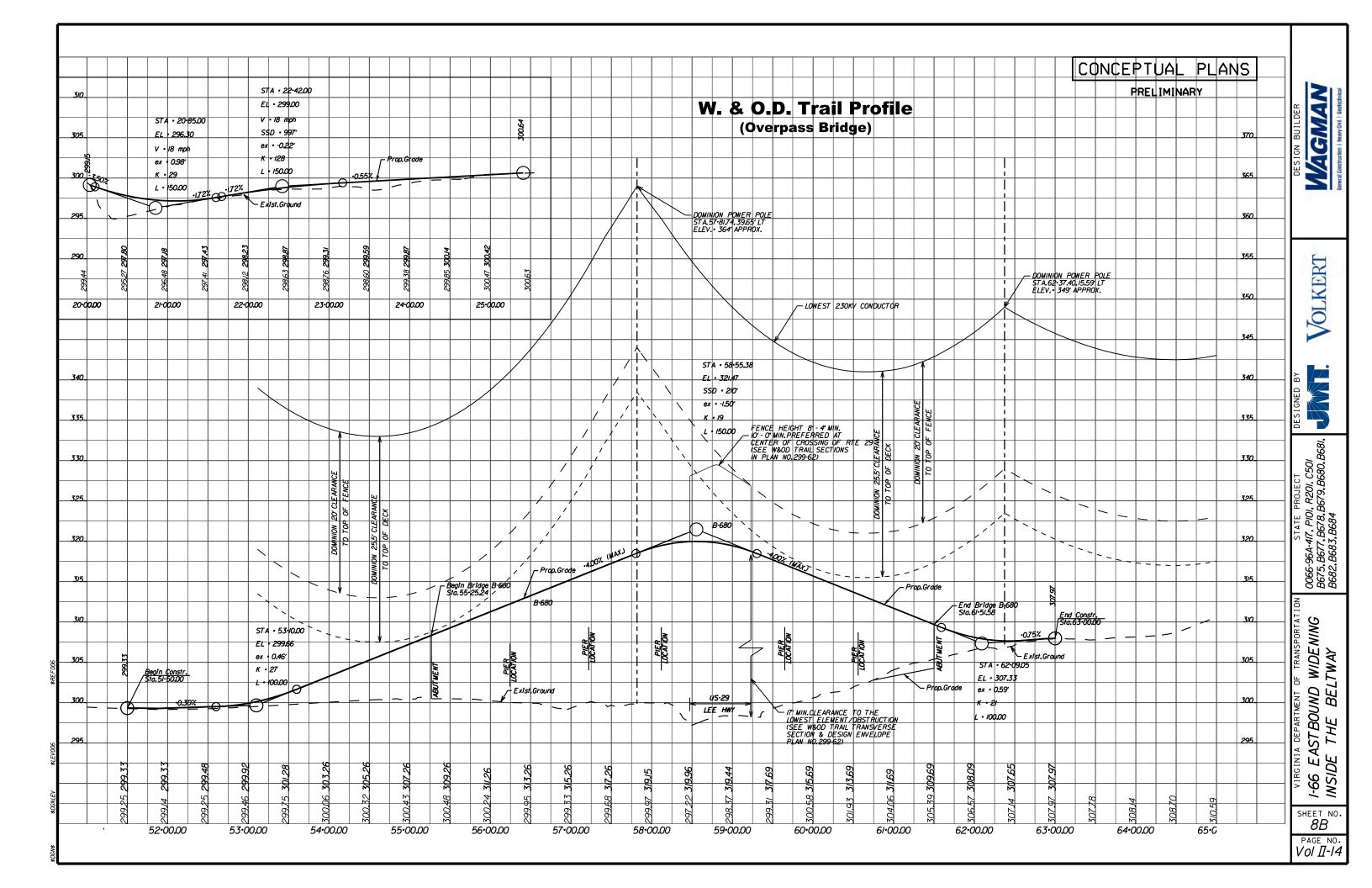


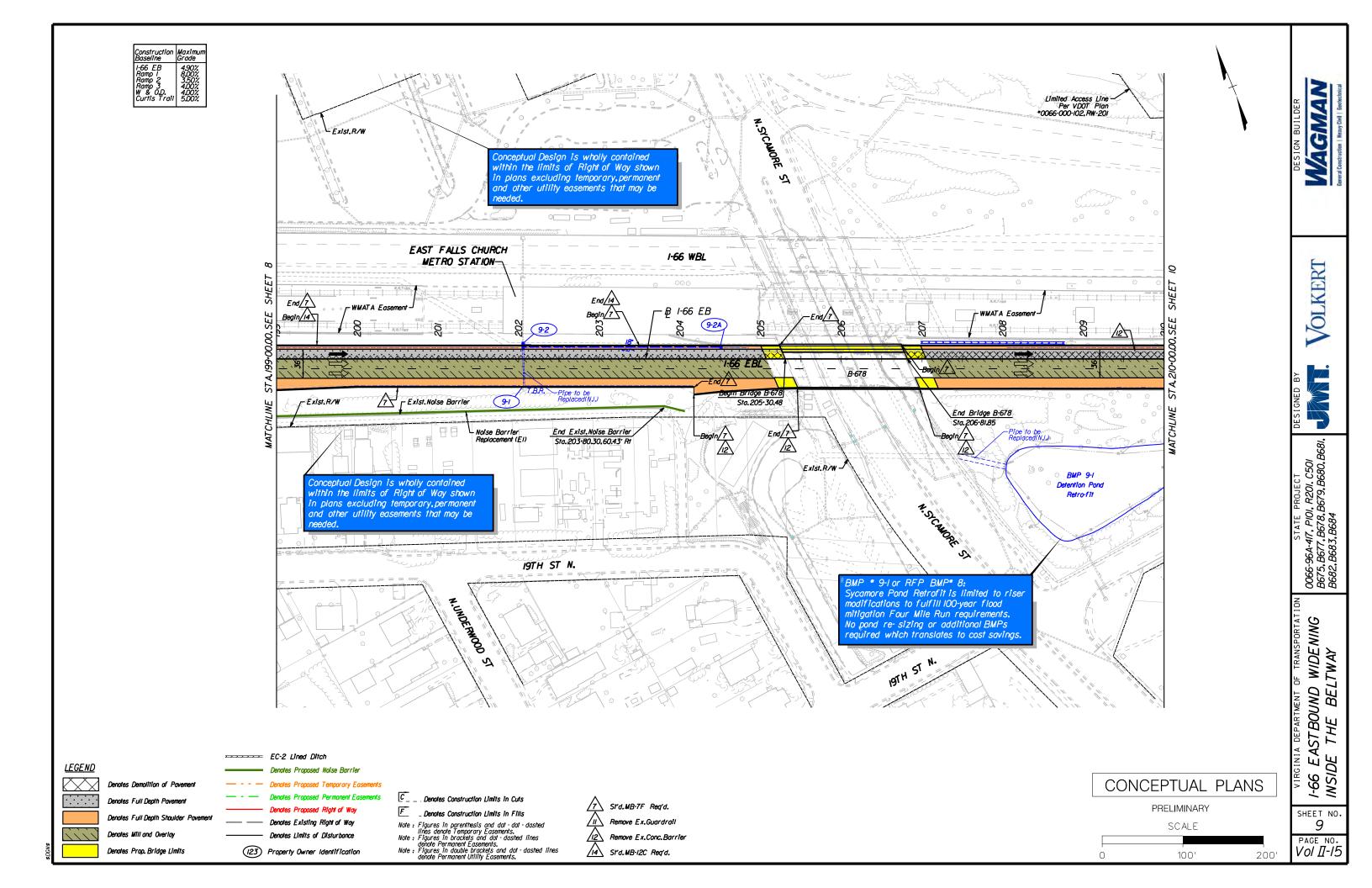


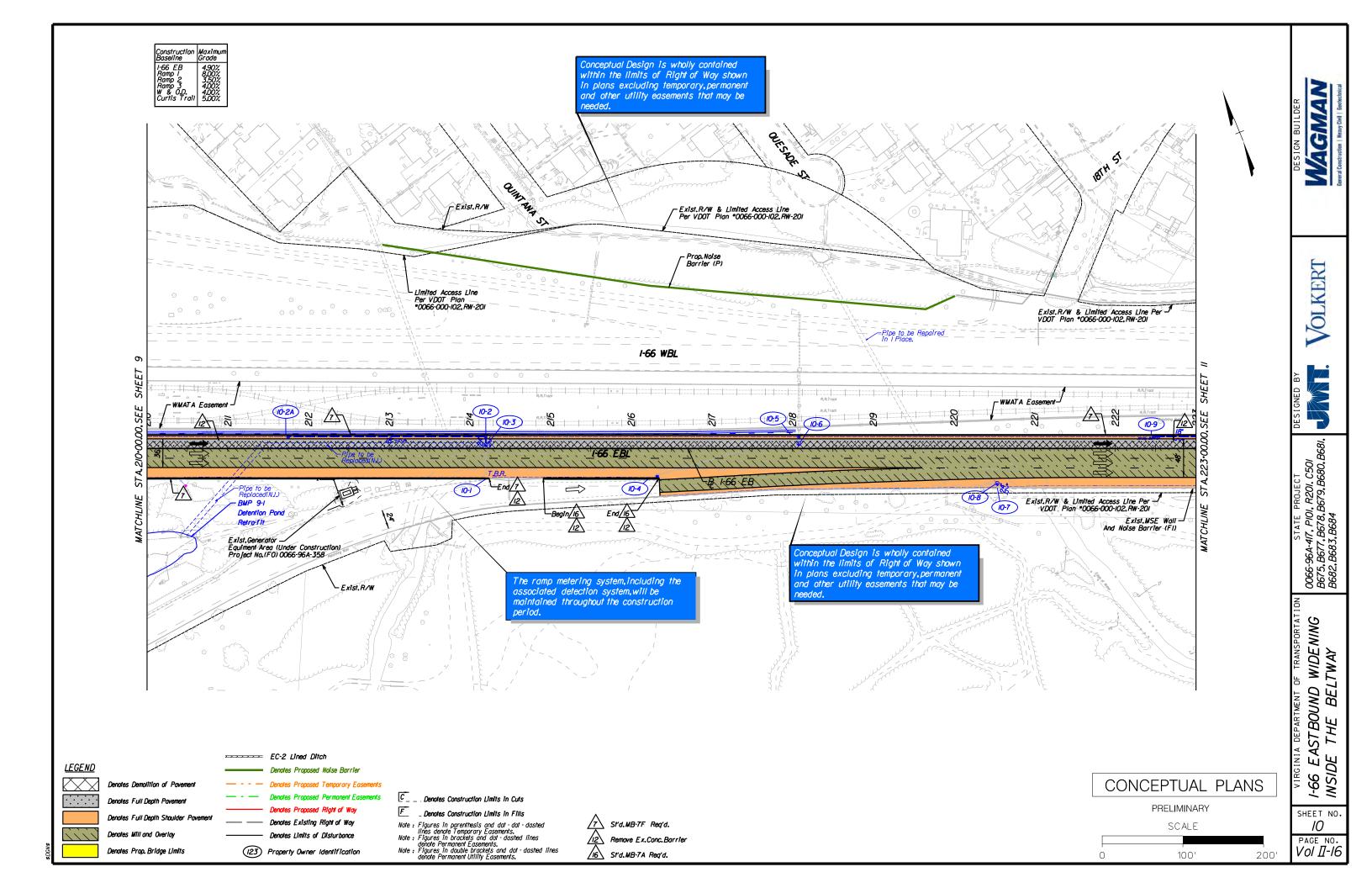


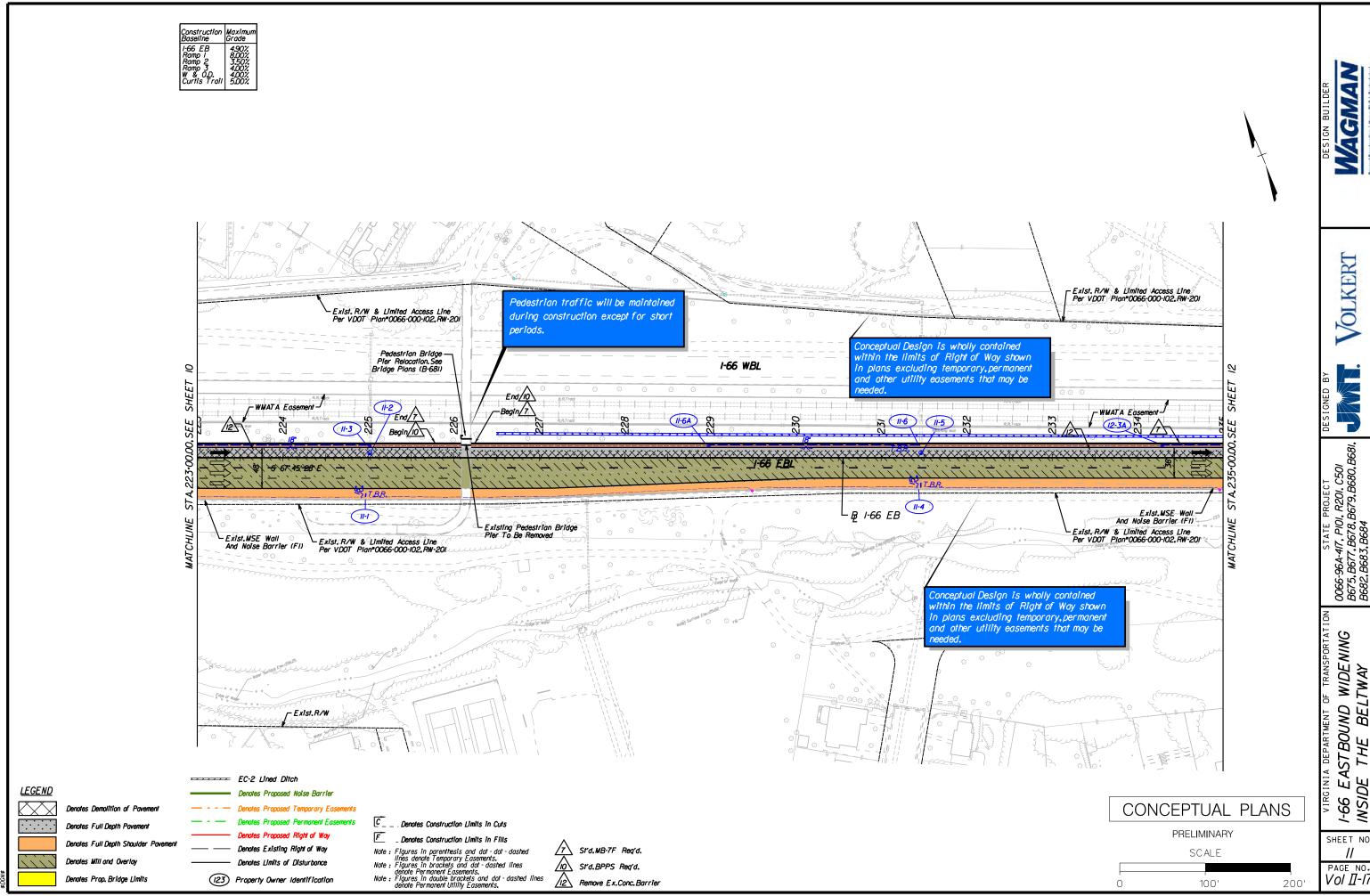










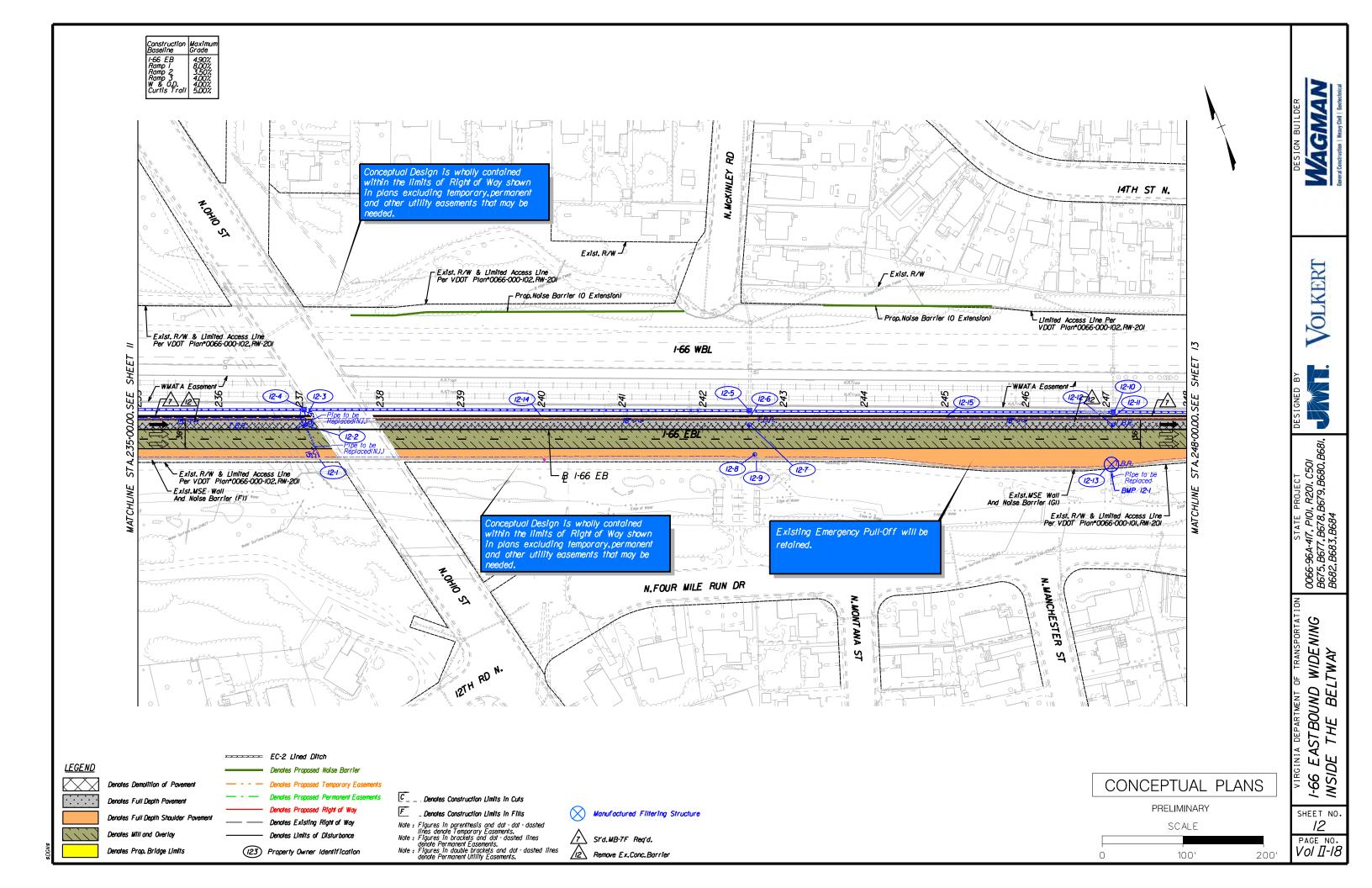


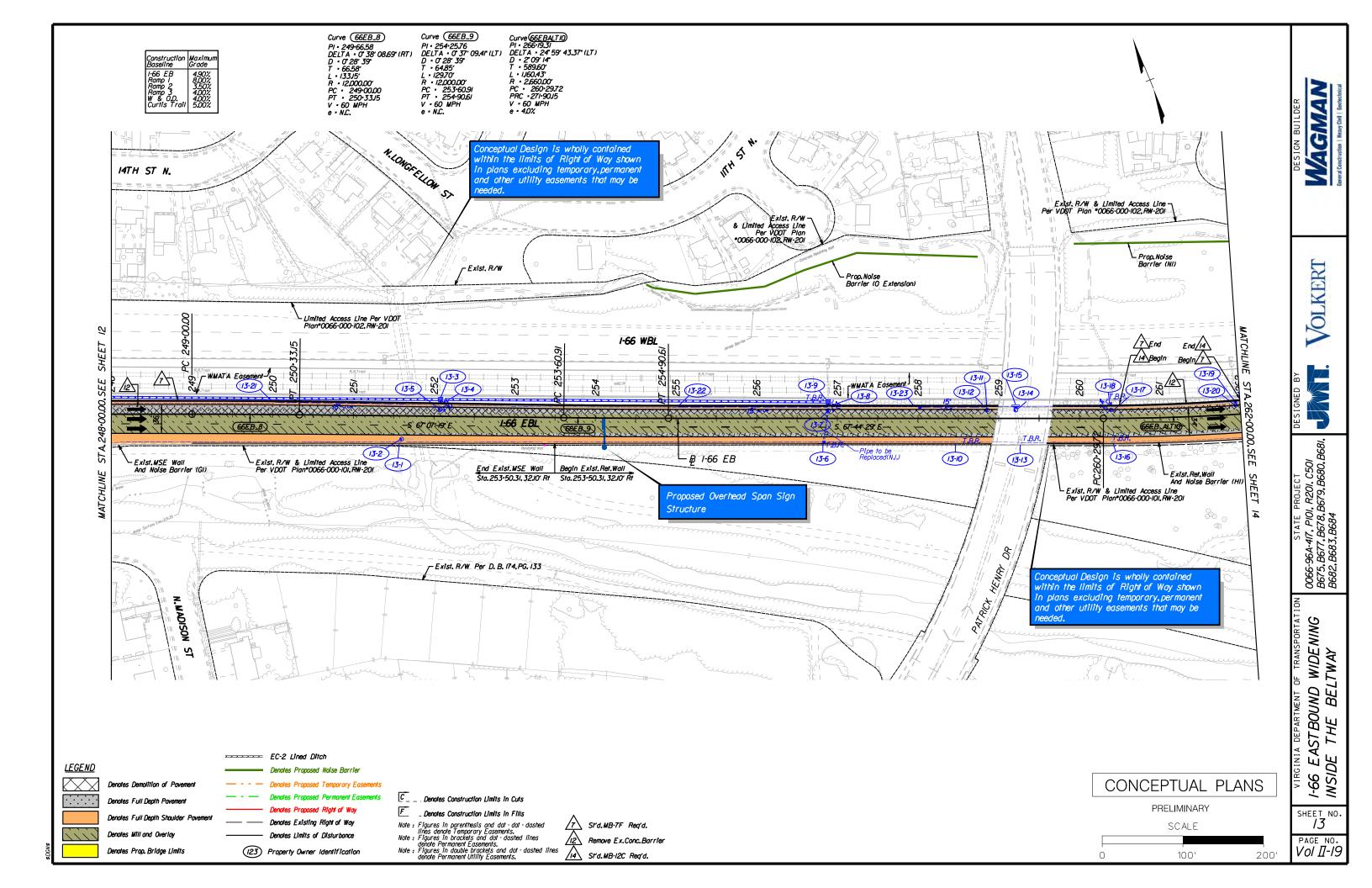
VOLKERT

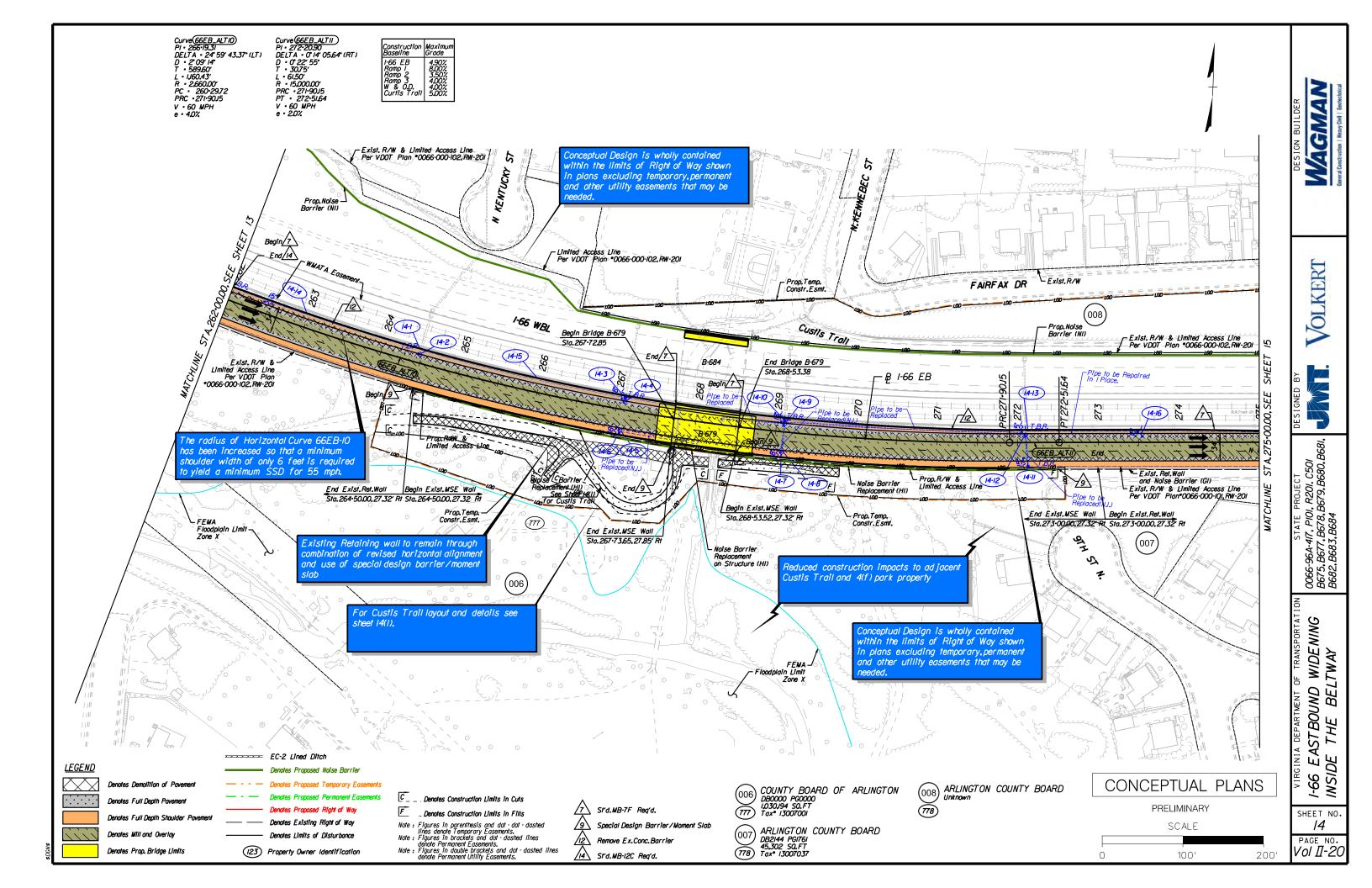
I-66 EASTBOUND WIDENING INSIDE THE BELTWAY

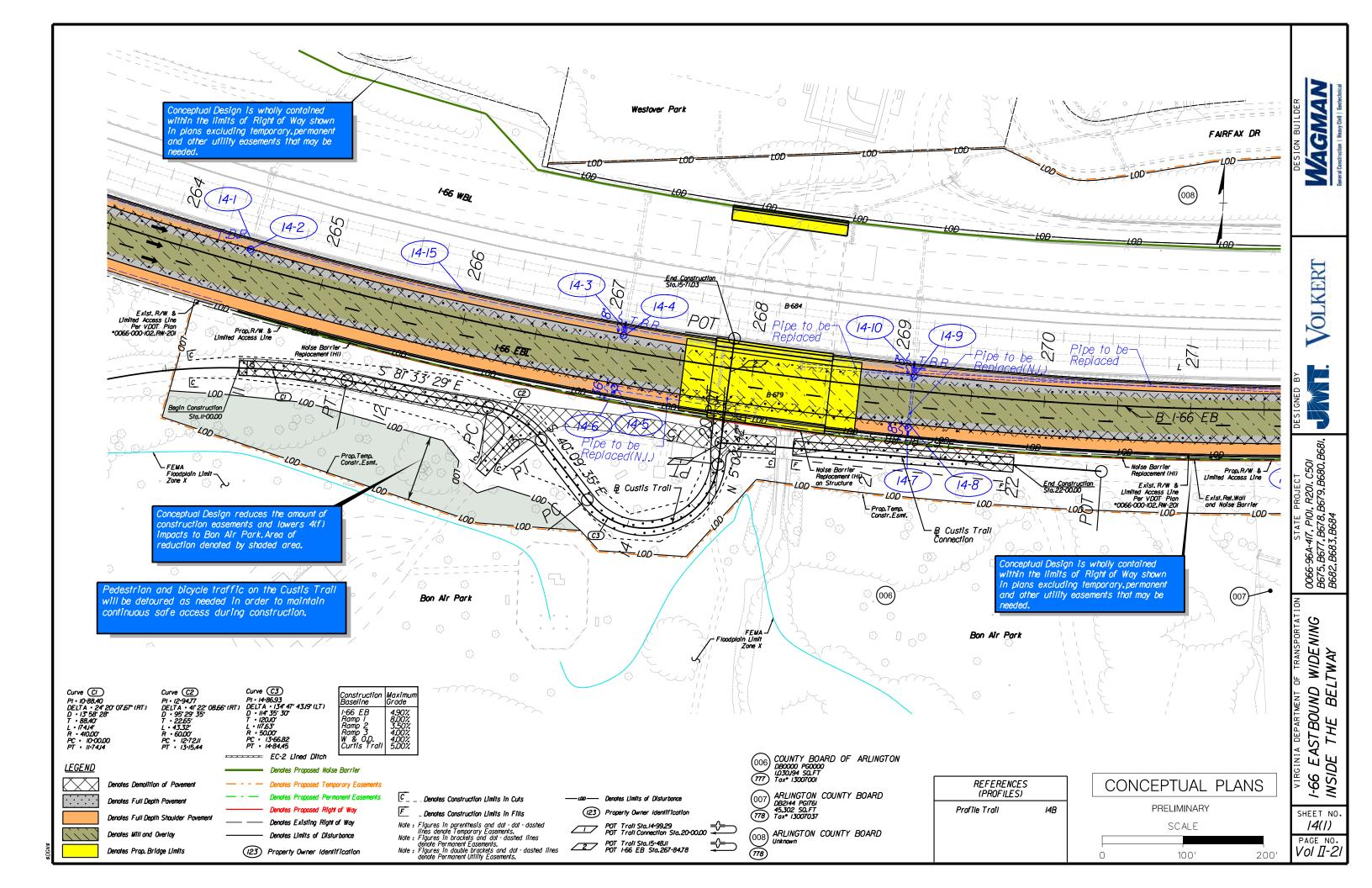
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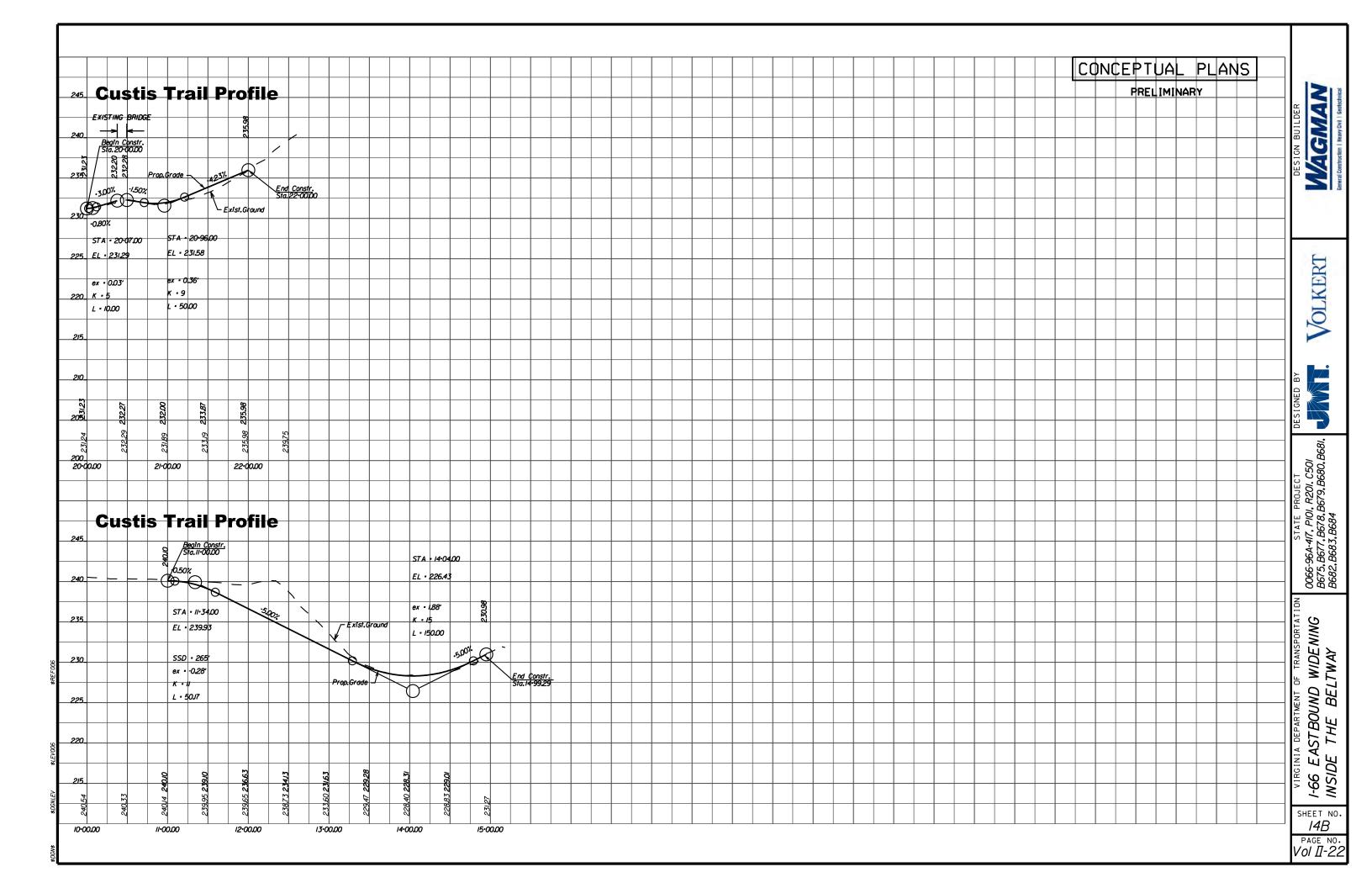
PAGE NO. **Vol []-17**

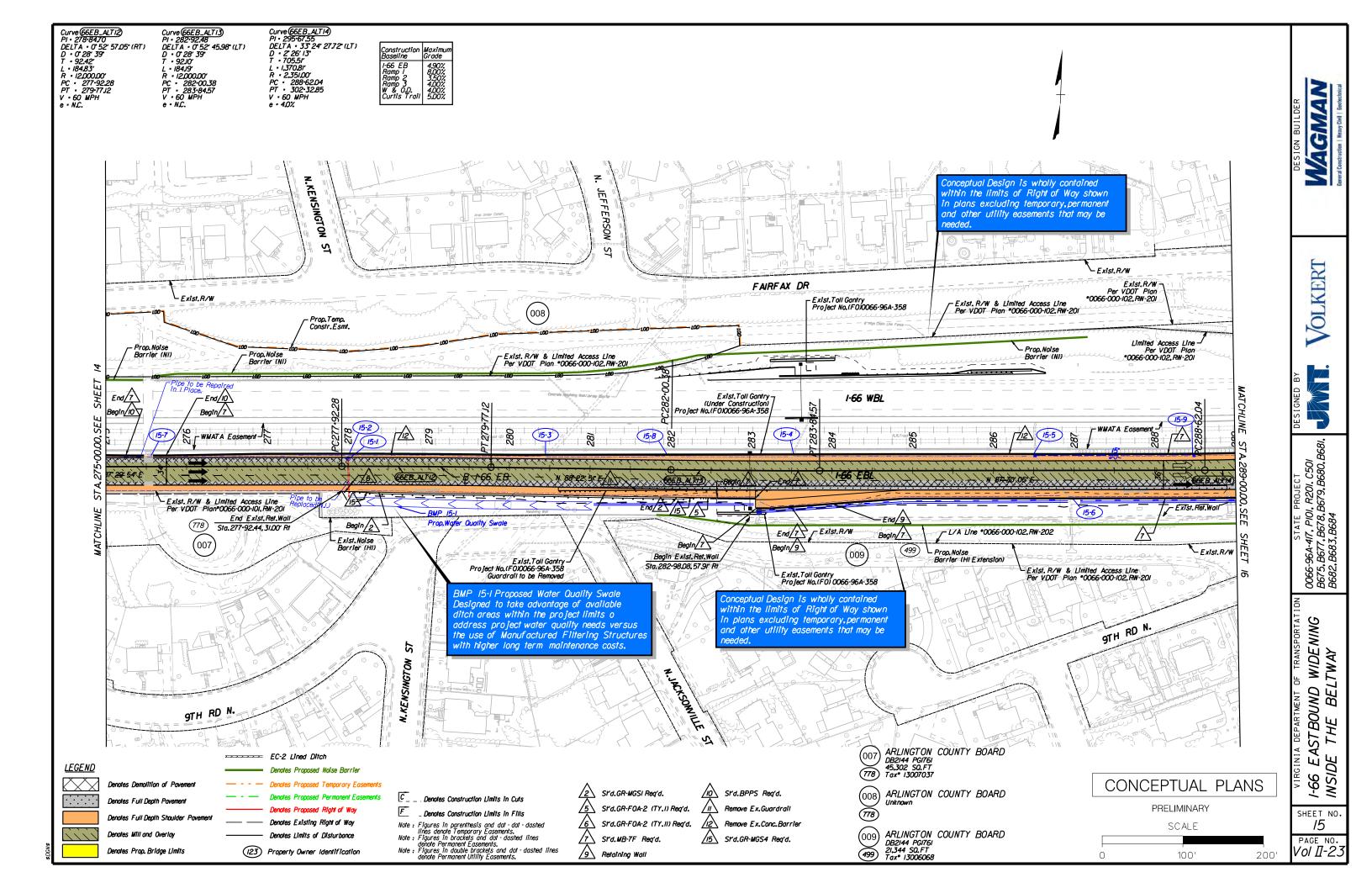


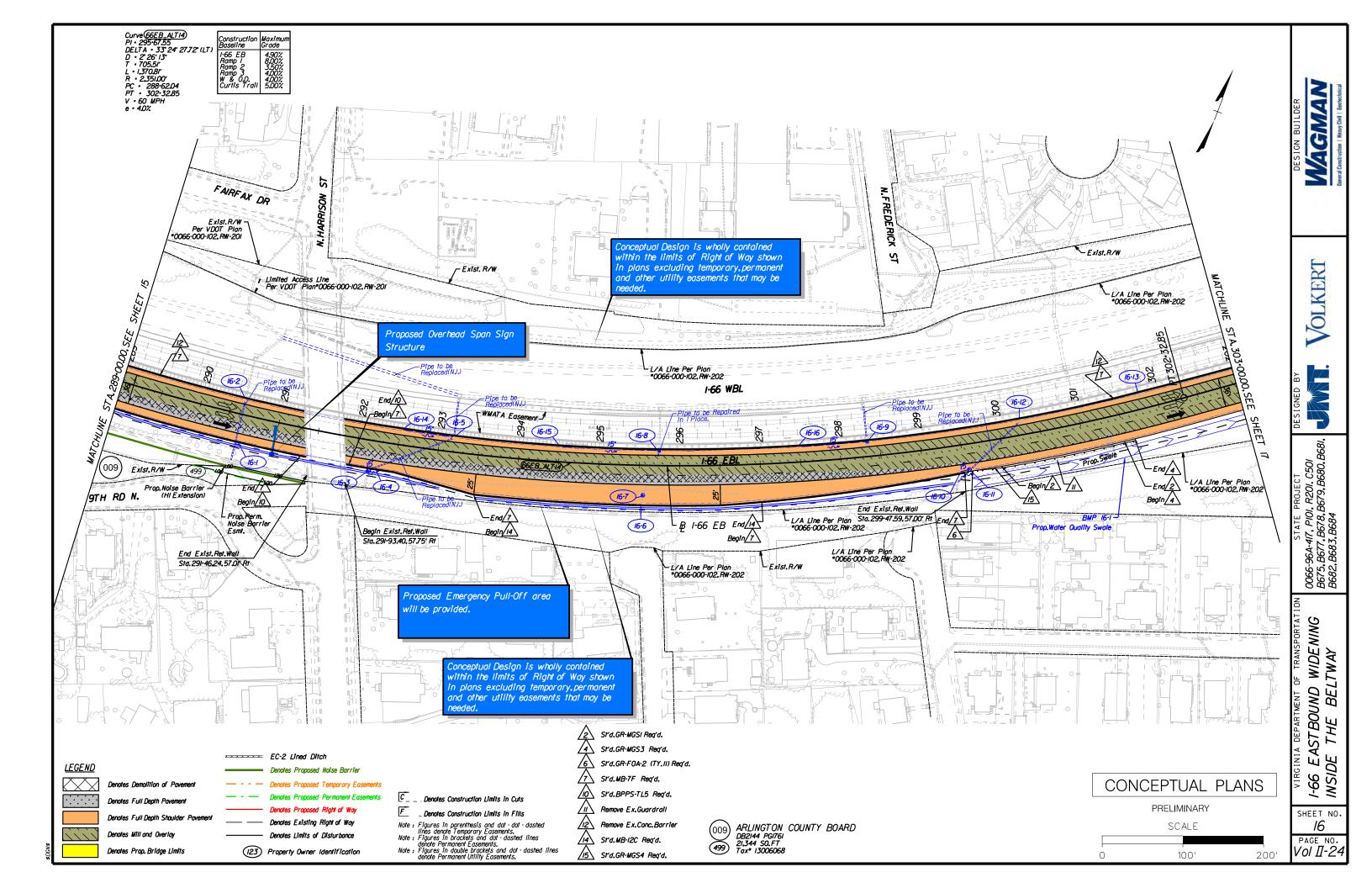


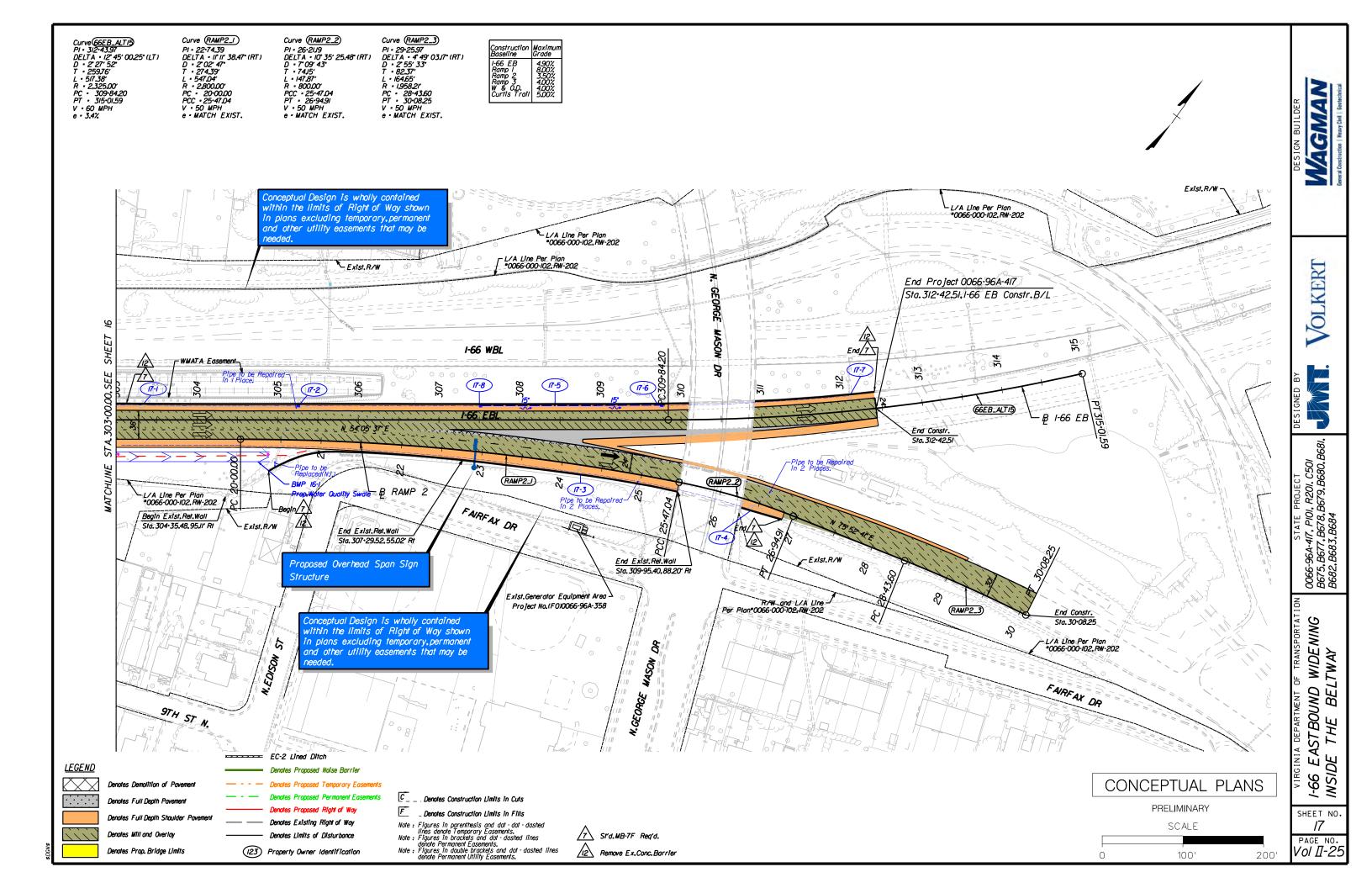












SHEET NO. 2A(1) PAGE NO. Vol II-26

I-66 EDA (OPTION 1)

TYPICAL SECTIONS

1-66 EB WIDENING STA. 746+50 TO STA. 748+50

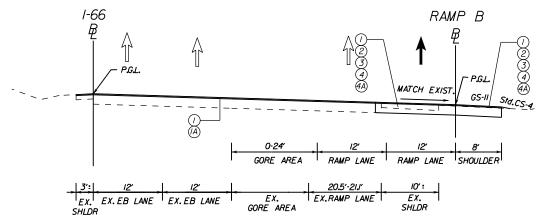
TEX. EX. EB LANE TEX. EB LANE

(2) (3) (4) (4)

MATCH EXIST.

I-66

PROP. FULL DEPTH PAVEMENT WIDENING SEE PLANS FOR LOCATIONS & LIMITS



EX. GORE AREA

SHOULDER

1-66 EB WIDENING STA. 744+71 TO STA. 746+50

PROP. FULL DEPTH PAVEMENT WIDENING SEE PLANS FOR LOCATIONS & LIMITS

RAMP B STA. 10+15 TO STA. 12+03

PROP.FULL DEPTH PAVEMENT WIDENING SEE PLANS FOR LOCATIONS & LIMITS

1-66 RAMPEXIST. WALL MATCH EXIST 8,1'-10,95' AUX. LANE SHOULDER VARIES 7,4'-12' WMATA EX.SHLDR EX.EB EX. EX. EB LANE EX. EB LANE AUX. LANE * CONCRETE CAP RECOD FROM STA.739.05 TO STA.742.00 3'-20' SHOULDER VARIES

1-66 EB WIDENING STA. 737+67 TO STA. 744+71 PROP. FULL DEPTH PAVEMENT WIDENING SEE PLANS FOR LOCATIONS & LIMITS

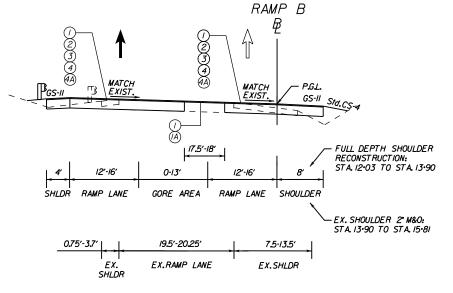
RAMP B STA. 6+10 TO STA. 10+15

STA. 737.67 TO STA. 742.00

PROP.FULL DEPTH PAVEMENT WIDENING SEE PLANS FOR LOCATIONS & LIMITS

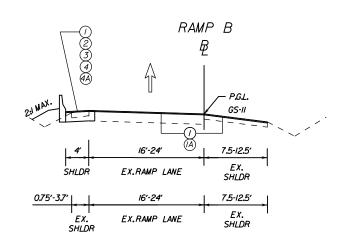
Pavement Legend

- 2" Asphalt Concrete, Type SM-12.5E @ 237 Lbs/Sq.Yd.
- (A) (2) (3) (4) Mill Existing Pavement 2" Depth
- 2" Asphalt Concrete Intermediate Course, Type IM-19.0A @ 240 Lbs/Sq.Yd.
- 6" Asphalt Concrete, Type BM-25.0A
- 6" Aggregate Base Material, Type I, No. 2IA, Pugmill Mixed with 4% by Weight Hydraulic Cement
- 6" Cement Stabilized Subgrade with 12% Hydraulic Cement



RAMP B STA. 12+03 TO STA. 15+81

PROP.FULL DEPTH PAVEMENT WIDENING SEE PLANS FOR LOCATIONS & LIMITS



RAMP B STA. 15+81 TO STA. 18+50

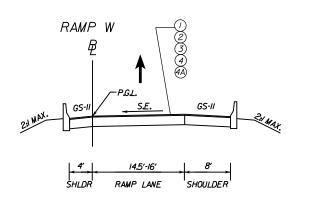
PROP.FULL DEPTH PAVEMENT WIDENING SEE PLANS FOR LOCATIONS & LIMITS

CONCEPTUAL PLANS

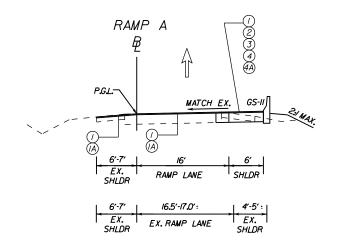
PRELIMINARY

NOT TO SCALE

TYPICAL SECTIONS



RAMP W STA. 52+49 TO STA. 54+88

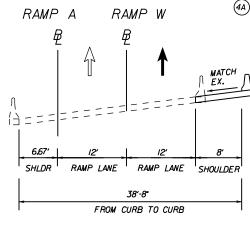


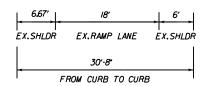
RAMP A STA. 23+00 TO STA. 24+95

PROP.FULL DEPTH PAVEMENT WIDENING SEE PLANS FOR LOCATIONS & LIMITS

Pavement Legend

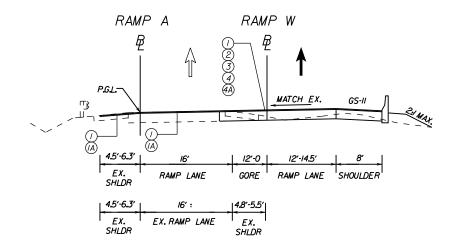
- (1) 2" Asphalt Concrete, Type SM-12.5E @ 237 Lbs/Sq. Yd.
- (A) Mill Existing Pavement 2" Depth
- 2" Asphalt Concrete Intermediate Course, Type IM-19.0A @ 240 Lbs/Sq.Yd.
- 3 6" Asphalt Concrete, Type BM-25.0A
- (4) 6" Aggregate Base Material, Type I, No. 2IA, Pugmill Mixed with 4% by Weight Hydraulic Cement
 - 6" Cement Stabilized Subgrade with 12% Hydraulic Cement





RAMP A STA. 26+75 TO STA. 28+55

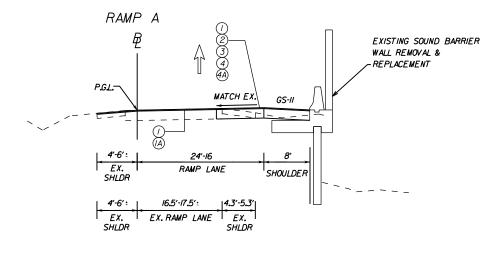
RAMP W STA. 56+77.50 TO STA. 58+54.30



RAMP A STA. 24+95 TO STA. 26+75

PROP.FULL DEPTH PAVEMENT WIDENING SEE PLANS FOR LOCATIONS & LIMITS RAMP W STA. 54+88 TO STA. 56+77.50

> PROP.FULL DEPTH PAVEMENT WIDENING SEE PLANS FOR LOCATIONS & LIMITS



RAMP A STA. 28+55 TO STA. 30+78

> PROP.FULL DEPTH PAVEMENT WIDENING SEE PLANS FOR LOCATIONS & LIMITS

TYPE & LOCATION OF RETAINING WALL TO BE DETERMINED DURING FINAL DEISGN PHASE.

CONCEPTUAL PLANS

PRELIMINARY

NOT TO SCALE

MAGMAN

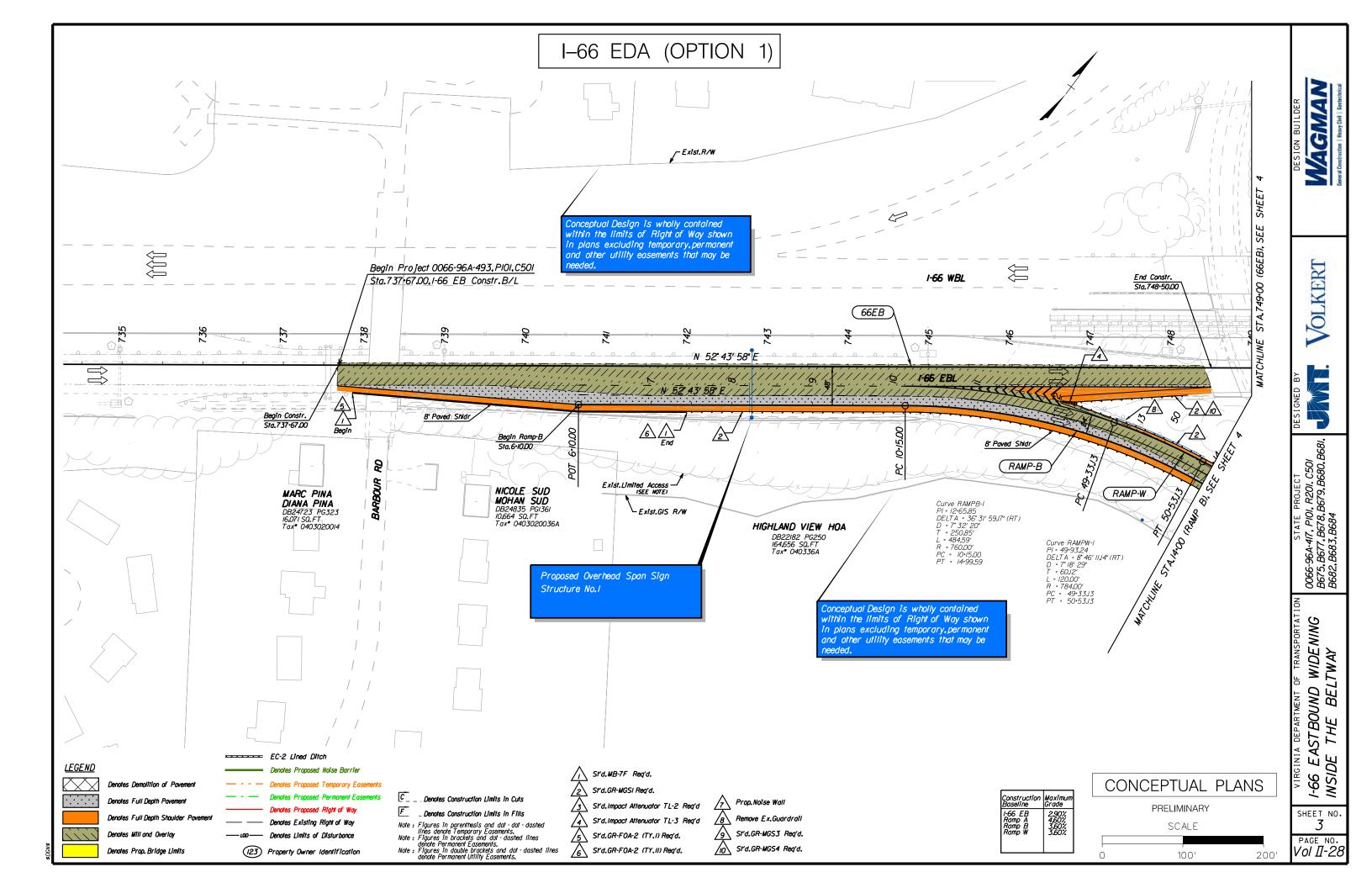
Reners Controlled | Benevities

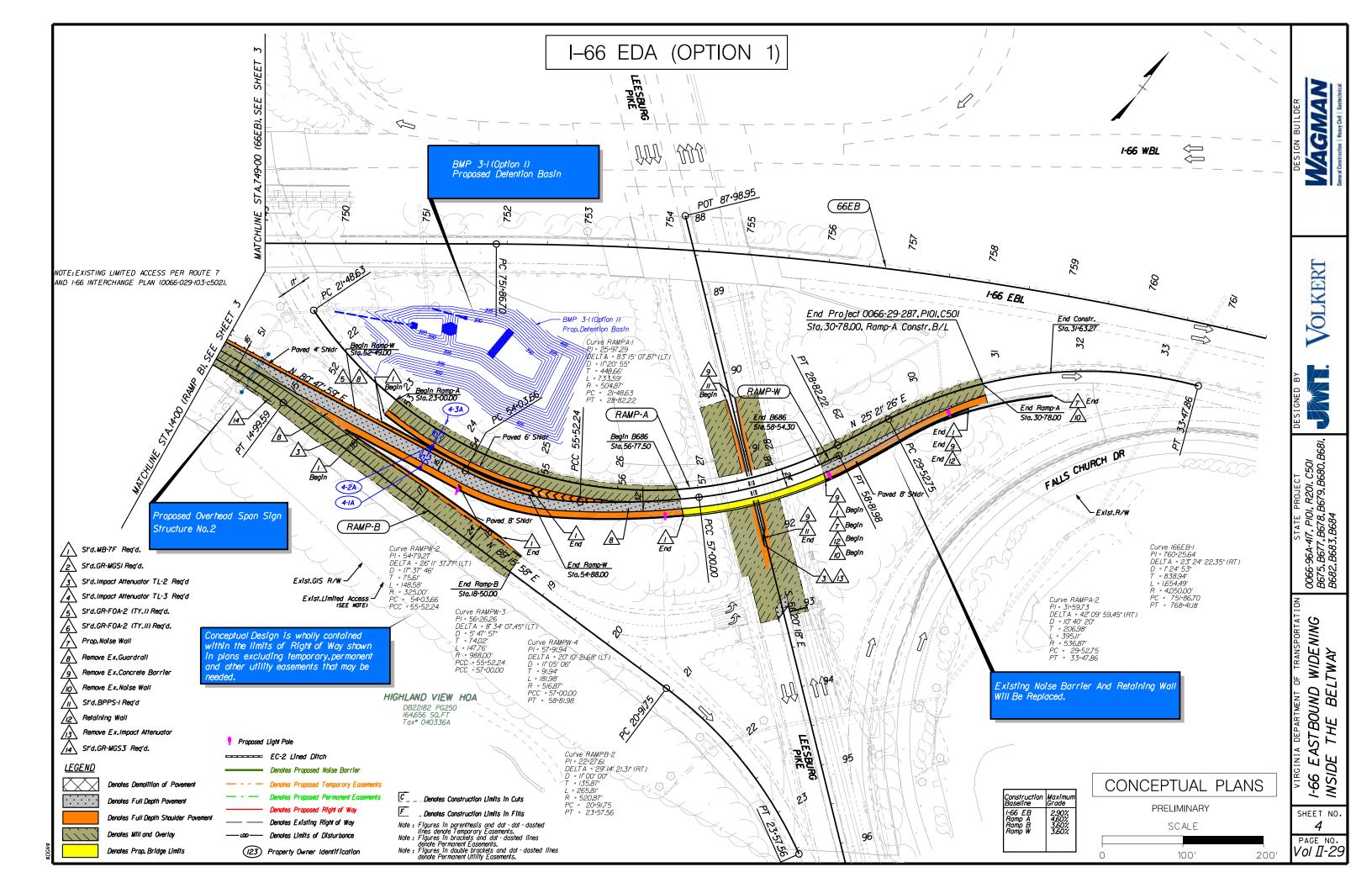
VOLKERT

STATE PROJECT 0066-96A-417, PIOI, R201. C501 B675, B677, B678, B679, B680, B681, B682, B683, B684

VIRGINIA DEPARTMENT OF TRANSPORTATION OF CONTROLLING WIDENING INSIDE THE BELTWAY

SHEET NO. 2A(2)
PAGE NO. VOI II-27





Section 4.3.1 Conceptual Roadway Plans I-66 EDA















Section 4.3.2 Conceptual Structural Plans













► Exist. C Elec. duct

SECTION ALONG CONSTRUCTION JOINT

Stations are shown along & I-66 EBL

Exist. C T/Tg duct

PIER 2

PIER I

VDOT

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF TRANSPORTATION

DESIGN EXCEPTION(S):

For general notes, see sheet S-2.

and work zone footprint.

All new deep foundations will be

drilled to minimize noise, vibrations

GENERAL NOTES:

Proposed work

Proposed foundation

PROPOSED BRIDGE WIDENING ON

1-66 EBL OVER WILLIAMSBURG BLVD.

ARLINGTON CO. 0.10 MI. EAST OF FAIRFAX CO. LINE

PROJECT 0066-96A-417, B675

188-09D

PRELIMINARY PLANS
THESE PLANS NOT TO BE USED
FOR CONSTRUCTION OF BRIDGE

CONCEPTUAL PLANS

PRELIMINARY NOT TO SCALE MAGNALIDER

Servicion Heav Sivil Genetati

OLKERT

ESIGNED BY

91416 PROJECT 0066-96A-417, P101, R201, C5C B675, B673, B678, B679, B680, B682, B683, B684

VIRGINIA DEPARTMENT OF TRANSPORTATION

1-66 INSIDE THE BELTWAY

EASTBOUND WIDENING

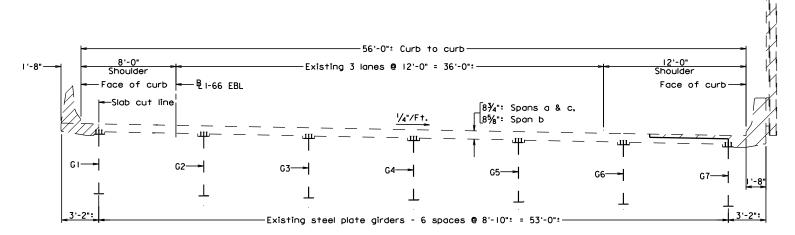
SHEET NO.

PAGE NO. Vol II-30

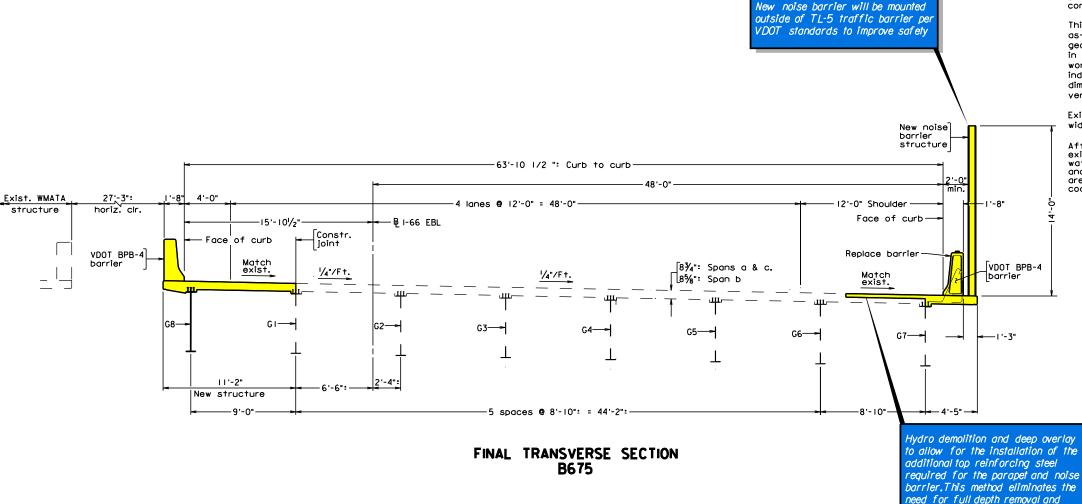


SHEET NO. S-2

PAGE NO. Vol II-31



EXISTING TRANSVERSE SECTION B675



GENERAL NOTES:

Width: 64'-0" Face to face of curbs. Includes widening of 8'-0" on left side of traffic.

Span layout: $43'-10\frac{1}{2}$ " - 81'-0" - $43'-10\frac{1}{2}$ " simple plate girder spans.

Capacity: HS20-44 Loading and modified military loading. HL-93 Loading for widening.

Specifications:

Construction: Virginia Department of Transportation Road and Bridge Specifications, 2016.

Design: AASHTO LRFD Bridge Design Specifications, 7th Edition, 2014 and VDOT Modifications.

Standards: Virginia Department of Transportation Road and Bridge Standards, 2016.

Bridge No. of existing bridge is 2069 Plan No. is 188-09.

The existing structure is designated a Type B structure in accordance with Sec. 411. Only existing soundwall contains lead.

All structural steel within the widened portion of structure, except in bearings and sole plates, shall be ASTM A709, Grade 50. Structural Steel in bearing and sole plates shall be ASTM A709 Grade 36.

Joint closure at piers shall be full joint closure. Joint closure concrete shall be LMC-VE concrete for Latex-Modified Concrete Early Strength

Structural steel for new beams shall be brown 595-30277 and shall match the color of existing plate girders.

If crane or other equipment is to be used within the WMATA Zone of Influence (ZOI), impact analysis shall be performed by the contractor to verify there is no impact on existing WMATA structure.

This plan set is prepared based on the information shown on the as-built plans of existing bridge. All dimensions affected by the geometrics and/or location of existing structure shall be checked in field by the contractor before commencement of construction work. Any +/- marks shown with dimensions and stations does not indicate any degree of precision. These +/- marks indicate existing dimensions and stations that may vary and do require field verification by the contractor.

Existing slab slope protection shall be extended to accomodate the

After completion of concrete substructure surface repair, all existing substructure (Abutments, Wingwalls, Piers) shall be waterproofed. Abutments backwalls and top of abutments seats and pier caps shall recieve a coat of epoxy Type EP-S. All other areas on substructure shall receive a coat of waterproofing coating Tex. Cote 300.

LEGEND:

associated deck forms and reduces:

material costs, duration, vibration and

construction noise.

Existing structure

Proposed work

PRELIMINARY PLANS THESE PLANS NOT TO BE USED

FOR CONSTRUCTION OF BRIDGE

CONCEPTUAL PLANS

PRELIMINARY NOT TO SCALE

PAGE NO.



GENERAL NOTES:

Width: 64'-0" face to face of cubs. Includes widening of 8'-0" on left side of traffic.

Span layout: $65'-6\frac{1}{2}$ " - 92'-6" - $65'-6\frac{1}{2}$ " simple steel plate girder spans.

Capacity: ${
m HS20\text{-}44}$ Loading and modified military loading ${
m HL\text{-}93}$ Loading for widening.

Specifications:

Construction: Virginia Department of Transportation Road and Bridge Specifications, 2016.

Design Widening: AASHTO LRFD Bridge Design Specifications, 7th Edition, 2014 and VDOT Modifications.

Standards: Virginia Department of Transportation Road and Bridge Standards, 2016.

Bridge No. of existing bridge is 2067 Plan No. is 188-11.

All structural steel within the widened portion of structure, except in bearings and sole plates, shall be ASTM A709, Grade 50. Structural Steel in bearing and sole plates shall be ASTM A709 Grade 36.

Joint closure at piers shall be full joint closure. Joint closure concrete shall be LMC-VE concrete for Latex-Modified Concrete Early Strength Overlays.

Structural steel for new beams shall be Brown 595-30277 and shall match the color of existing plate girders.

If crane or other equipment is to be used within the WMATA Zone of Influence (ZOI), impact analysis shall be performed by the contractor to verify there is no impact on existing WMATA structure.

Existing slab slope protection shall be extended to accommodate

After completion of concrete substructure surface repair, all existing substructure (Abutments, Wingwalls, Piers) shall be waterproofed. Abutments backwalls and top of abutments seats and pier caps shall recieve a coat of epoxy Type EP-S. All other areas on substructure shall receive a coat of waterproofing coating Tex. Cote 300.

> All new deep foundations will be drilled to minimize noise, vibrations and work zone footprint.

****VDOT

COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

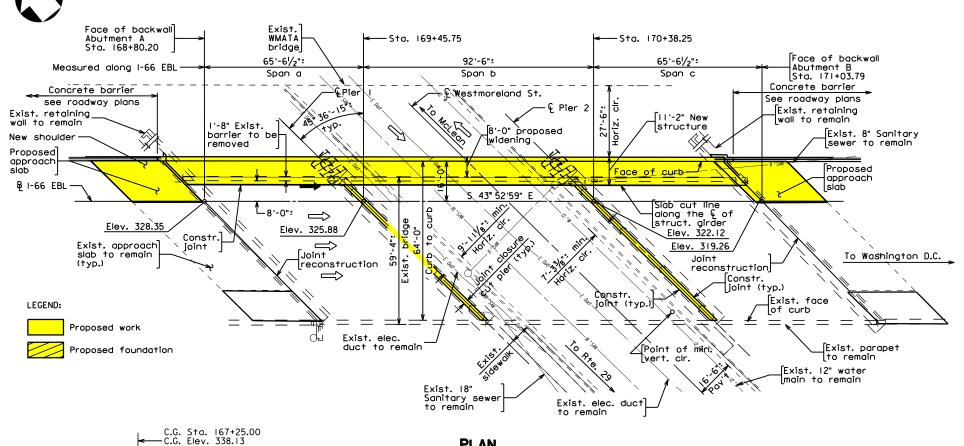
PROPOSED BRIDGE WIDENING ON I-66 EBL OVER WESTMORELAND ST. ARLINGTON CO. 0.080 MI. RTE. 694 PROJECT 0066-96A-417. B677 188-11E

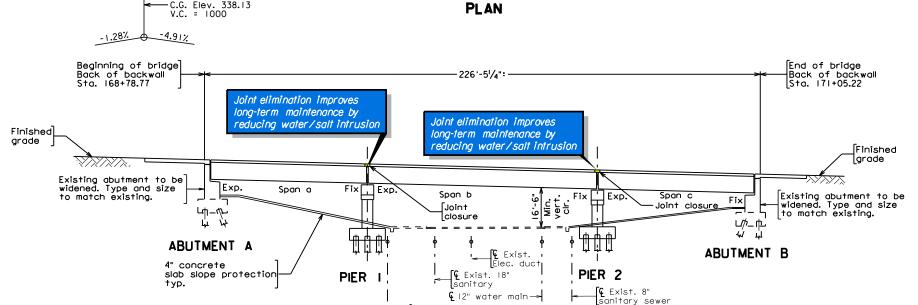
> PRELIMINARY PLANS THESE PLANS NOT TO BE USED

FOR CONSTRUCTION OF BRIDGE

CONCEPTUAL PLANS

PRELIMINARY NOT TO SCALE





← C Exist, elec. duct

SECTION ALONG CONSTRUCTION JOINT

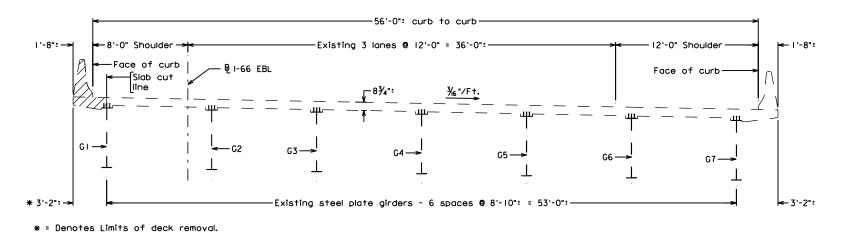
Stations are shown along & 1-66 EBL

S-4 PAGE NO. Vol II-33

NOT TO SCALE

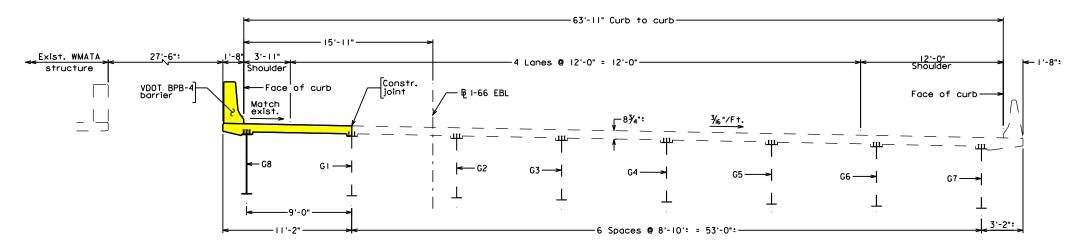
PRELIMINARY PLANS

THESE PLANS NOT TO BE USED FOR CONSTRUCTION OF BRIDGE



EXISTING TRANSVERSE SECTION B677

LEGEND: Existing structure removal Proposed work



FINAL TRANSVERSE SECTION B677

CONCEPTUAL PLANS PRELIMINARY

PAGE NO. Vol [[-34

DESIGN EXCEPTION(S):

GENERAL NOTES:

Width: 52'-0" min. face-to-face of curbs, includes widening of 8'-0" min. on left side of traffic.

Span layout: $75'-8'/_4$ " - $75'-8'/_4$ " continuous multi-cell concrete box girder spans.

Capacity: HS20-44 Loading and modified military loading. HL-93 loading for widening.

Specifications:

Construction: Virginia Department of Transportation Road and Bridge Specifications, 2016.

Design Widening: AASHTO LRFD Bridge Design Specifications, 7th Edition, 2014 and VDOT Modifications.

Standards: Virginia Department of Transportation Road and Bridge Standards, 2016.

Bridge No. of existing bridge is 2073 Plan No. is 213-07.

crane or other equipment is to be used within the WMATA Zone of Influence (ZOI), impact analysis shall be performed by the contractor to verify there is no impact on existing WMATA structure.

This plan set is prepared based on the information shown on the as-built plans of existing bridge. All dimensions affected by the geometrics and/or location of existing structure shall be checked in field by the contractor before commencement of construction work. Any +/- marks shown with dimensions and stations does not indicate any degree of precision. These +/- marks indicate existing dimensions and stations that may vary and do require field verification by the

Drilled shaft shall be used as foundation support of Pier widening.

After completion of concrete substructure surface repair, all existing abutments and wingwalls shall be waterproofed.

Abutments backwalls and top of abutments seats shall receive a coat of epoxy Type EP-S. All other areas on abutments shall receive a coat of waterproofing coating Tex. Cote 300.

> All new deep foundations will be drilled to minimize noise, vibrations and work zone footprint.

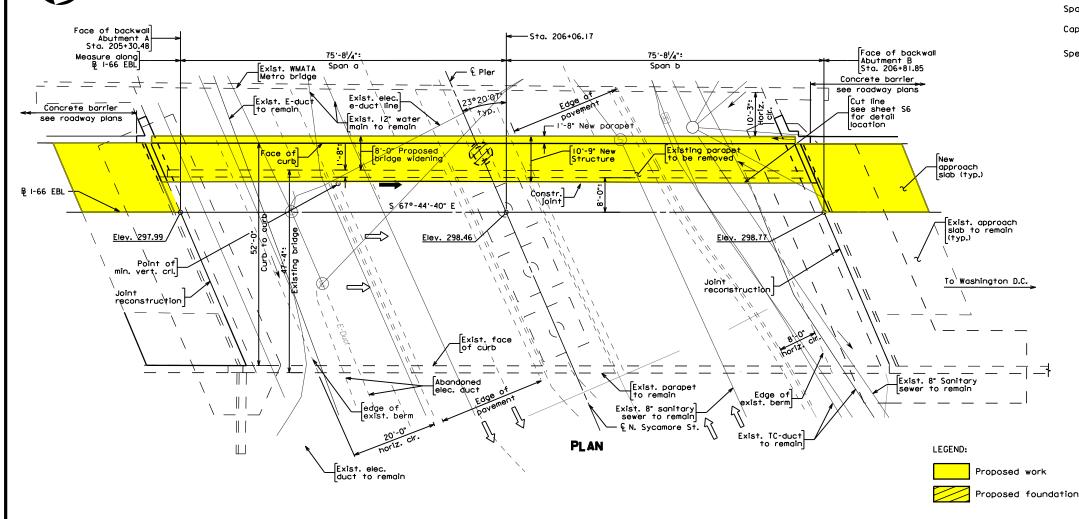
VDOT

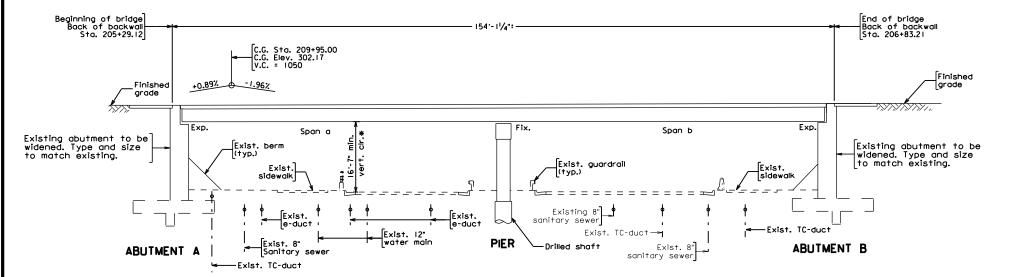
COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION PROPOSED BRIDGE WIDENING ON I-66 EBL OVER N. SYCAMORE ST. ARLINGTON COUNTY, 0.48 MI, W OF GLEBE RD. PROJECT 0066-096-417, B678 213-07B

> PRELIMINARY PLANS THESE PLANS NOT TO BE USED FOR CONSTRUCTION OF BRIDGE

CONCEPTUAL PLANS

PRELIMINARY NOT TO SCALE



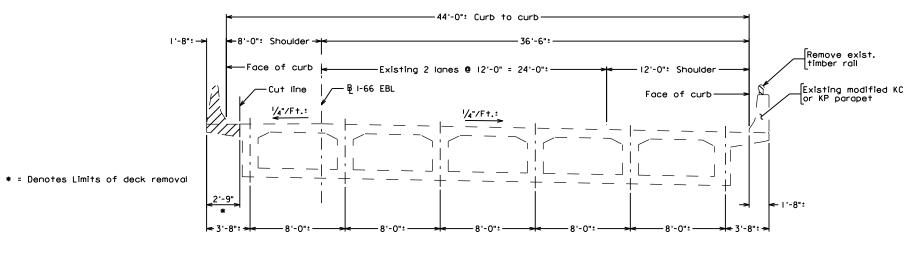


* Per 2016 inspection report

SECTION ALONG CONSTRUCTION JOINT

Stations are shown along & I-66 EBL

PAGE NO. Vol II-35

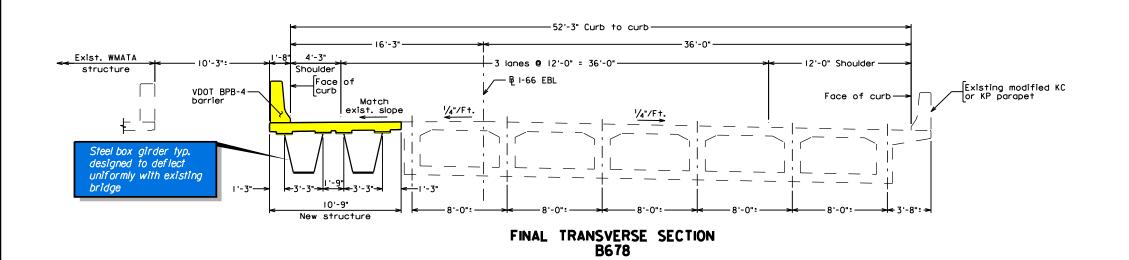


EXISTING BRIDGE TRANSVERSE SECTION B678

LEGEND:

Existing structure removal

Proposed work



Note:

New and existing superstructure elements, in addition to deck, shall be transversely connected at the location of existing intermediate diagrams with new diaphragms.

PRELIMINARY PLANS THESE PLANS NOT TO BE USED FOR CONSTRUCTION OF BRIDGE

CONCEPTUAL PLANS

PRELIMINARY NOT TO SCALE



PAGE NO. 'Vol *I*I-36



Stopping sight distance 8ft shoulder width reduction

GENERAL NOTES:

Width: 50:-0" face-to-face of curb. Includes widening of 1'-6" on left side of traffic and 6'-0" on right side of traffic.

Span layout: 80', steel box girders (existing) and 80' steel rolled beams.

Capacity: HL-93 Loading.

Drainage area: XXX sq. mi.

Specifications:

Construction: Virginia Department of Transportation Road and Bridge Specifications, 2016.

Design: AASHTO LRFD Bridge Design Specications, 7th Edition, 2014; and VDOT Modifications.

Standards: Virginia Department of Transportation Road and Bridge Standards, 2016.

Bridge No. of existing bridge is 2076. Plan No. is 255-20 and 255-20A. The existing structure is designated a Type B structure in accordance with Sec. 411. Only existing soundwall contains lead.

This plan set is prepared based on the information shown as the as-built plans of existing bridge. All dimension affected by the geometrics and/or location of existing structure shall be checked in field by the contractor before commencement of construction work. Any: marks shown with dimensions and stations does not indication any degree of precision. These: marks indicate existing dimensions and stations that may vary and do require field verification by the contractor.

Deck slab extension shall be used at abutments.

See sheet S-8 for discussion of shoulder widths.

Il new deep foundations will be drilled to minimize noise, vibrations and work zone footprint.

****VD@T

COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

PROPOSED BRIDGE WIDENING ON

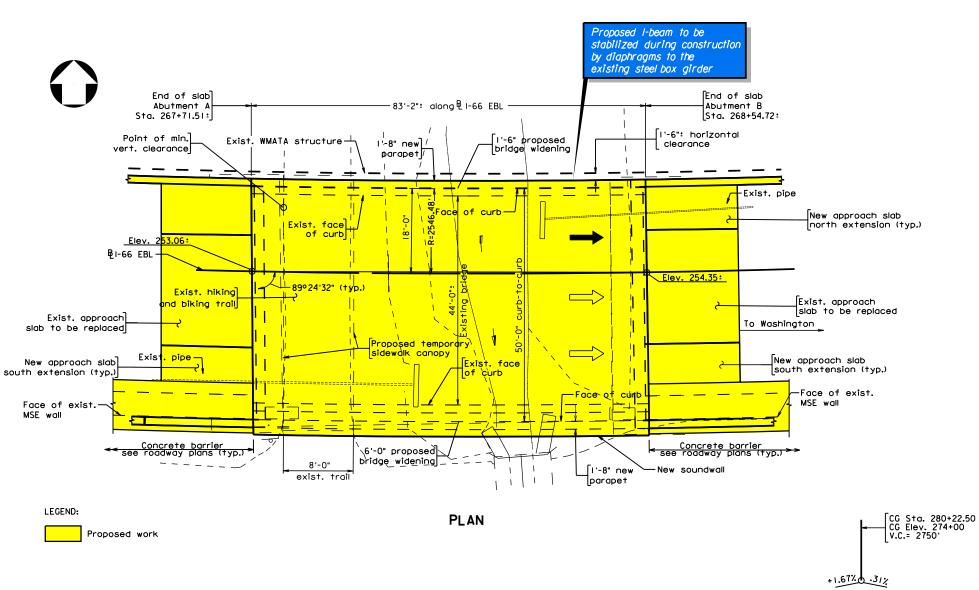
I-66 EBL OVER BON AIR PARK ARLINGTON CO. O. 17 MI. E OF PATRICK HENRY DRIVE PROJECT 0066-096A-417, B679 255-20B

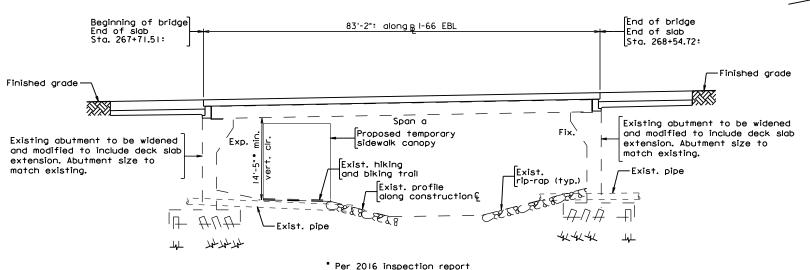
PRELIMINARY PLANS

THESE PLANS NOT TO BE USED FOR CONSTRUCTION OF BRIDGE

CONCEPTUAL PLANS

PRELIMINARY NOT TO SCALE

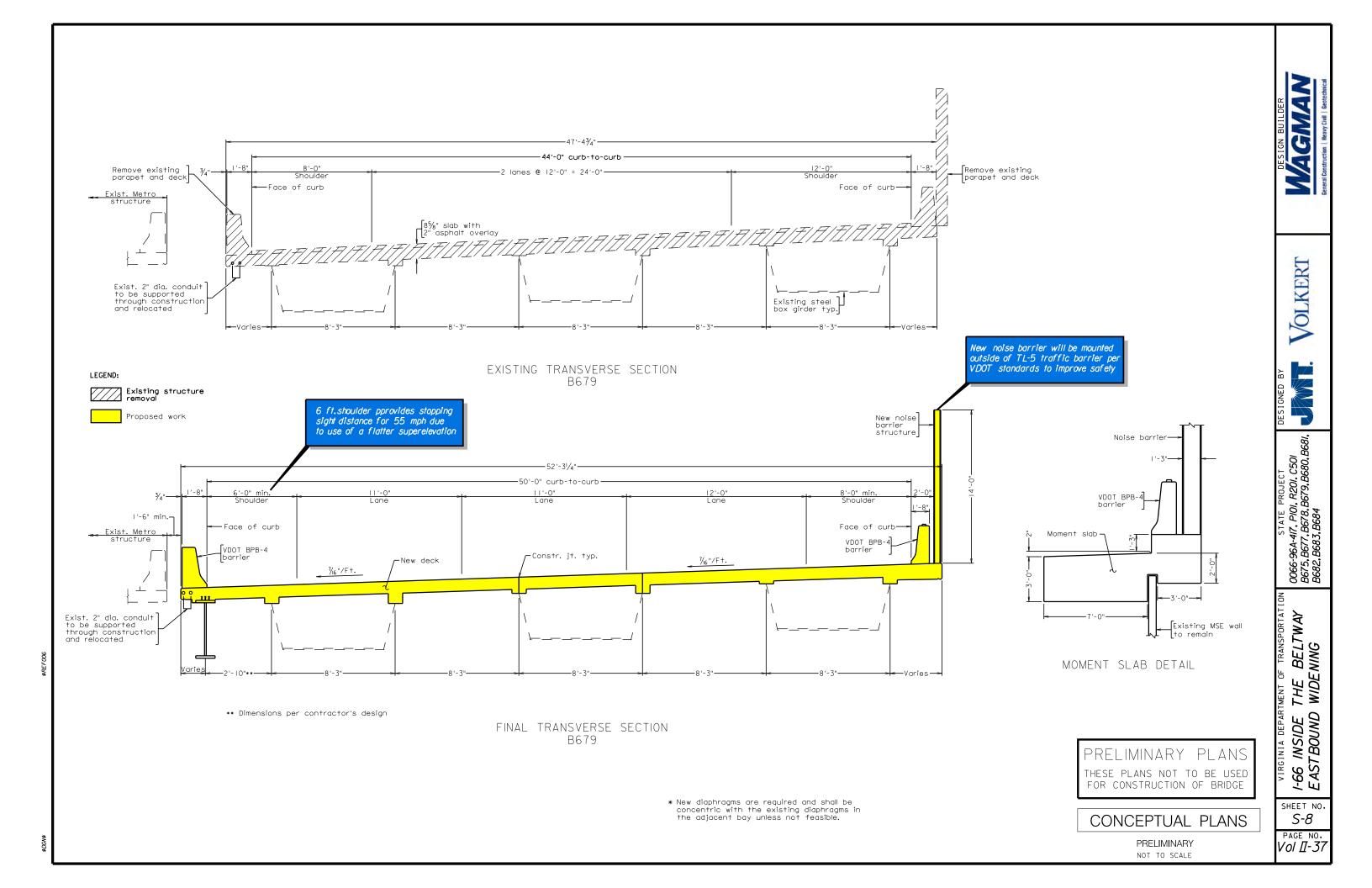




DEVELOPED SECTION ALONG B 1-66 EBL

ABUTMENT A

ABUTMENT B





OLKERI

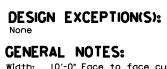
71, R201, C501 B679, B680, B681,

0066-9 B675,1 B682,1

SHEET NO S-9

PAGE NO. Vol [[-38

PRELIMINARY NOT TO SCALE



Width: 10'-0" Face to face curbs.

Span layout: 49'-0" - 69'-0" - 63'-3½" - 74'-8½" - 46'-0" - 49'-0" continuous wide flange and plate. Capacity: Live load of 60 lbs./sq. ft. and 5 ton maintenance vehicle.

Specifications:

Construction: Virginia Department of Transportation Road and Bridge Specifications, 2016.

Design Substructure: AASHTO LRFD Bridge Design Specifications, 7th Edition, 2014 and VDOT modifications.

Standards: Virginia Department of Transportation Road and Bridge Standards, 2016.

Bridge No. of existing bridge is 5049 Plan No. is 255-56.

Existing structural steel including beams/plate girders, diaphraams and diaphragm connections, stiffeners, and bearing assemblies are A588 and are unpainted.

All structural steel for strengthening, except in bearings and sole plates shall be ASTM A709 Grade 50W and shall be unpainted except as required by section 407 of Specifications. Structural steel in bearing and sole plates shall be ASTM 709 Grade 36, shall be painted brown and shall match existing color.

If crane or other equipment is to be used within the WMATA Zone of Influence (ZOI), impact analysis shall be performed by the contractor to verify there is no impact on existing WMATA structure.

Existing superstructure shall be evaluated in its entirety and may have to be strengthened due to the removal/replacement of existing Pier 3.

This plan set is prepared based on the information shown on the as-built plans of existing bridge. All dimensions affected by the geometrics and/or location of existing structure shall be checked in field by the contractor before commencement of construction work. Any +/- marks shown with dimensions and stations does not indicate any degree of precision. These +/- marks indicate existing dimensions and stations that may vary and do require field verification by the contractor.

> All new deep foundations will be drilled to minimize noise, vibrations and work zone footprint.

****VDOT

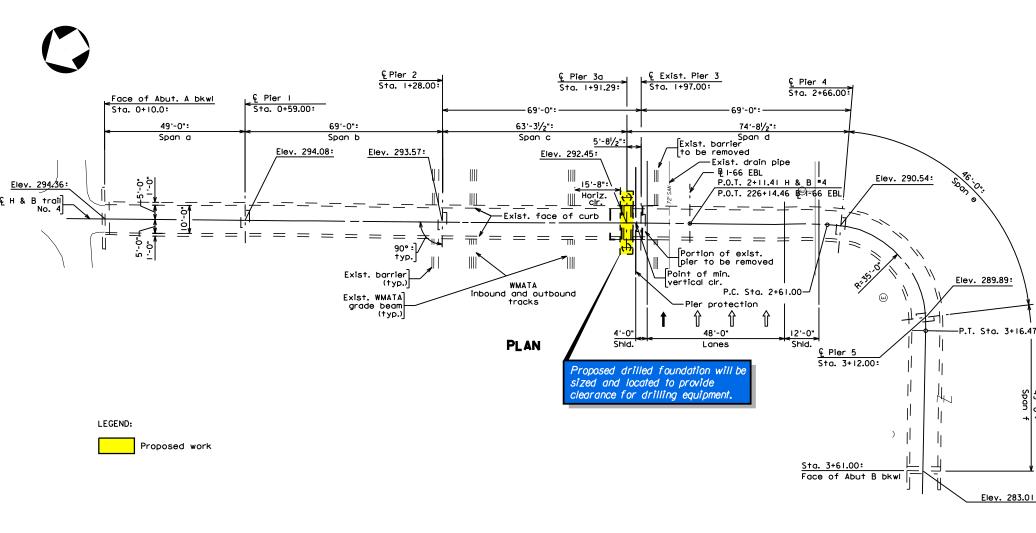
COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

PROPOSED PIER RELOCATION

HIKING & BIKING TRAIL (NO. 4) OVER 1-66 0.9 MI. EAST OF PATRICK HENRY DR. ARLINGTON COUNTY PROJECT 0066-096-417. B681 255-56A

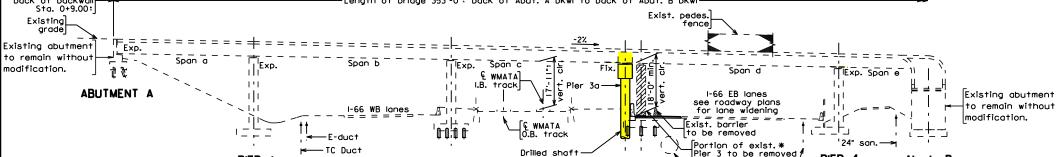
> PRELIMINARY PLANS THESE PLANS NOT TO BE USED FOR CONSTRUCTION OF BRIDGE

CONCEPTUAL PLANS



C.G. Sta. 2+75.00 C.G. Elev. 290.70 V.C. = 150' -0.57% -2.00% -2,00% -8.945% Begining of bridge back of backwall Sta. 0+9.00: -Length of bridge 353′-0″: back of Abut. A bkwl to back of Abut. B bkwl

PIER 2



ELEVATION

PIER 3

PIER 4

Elec. duct -

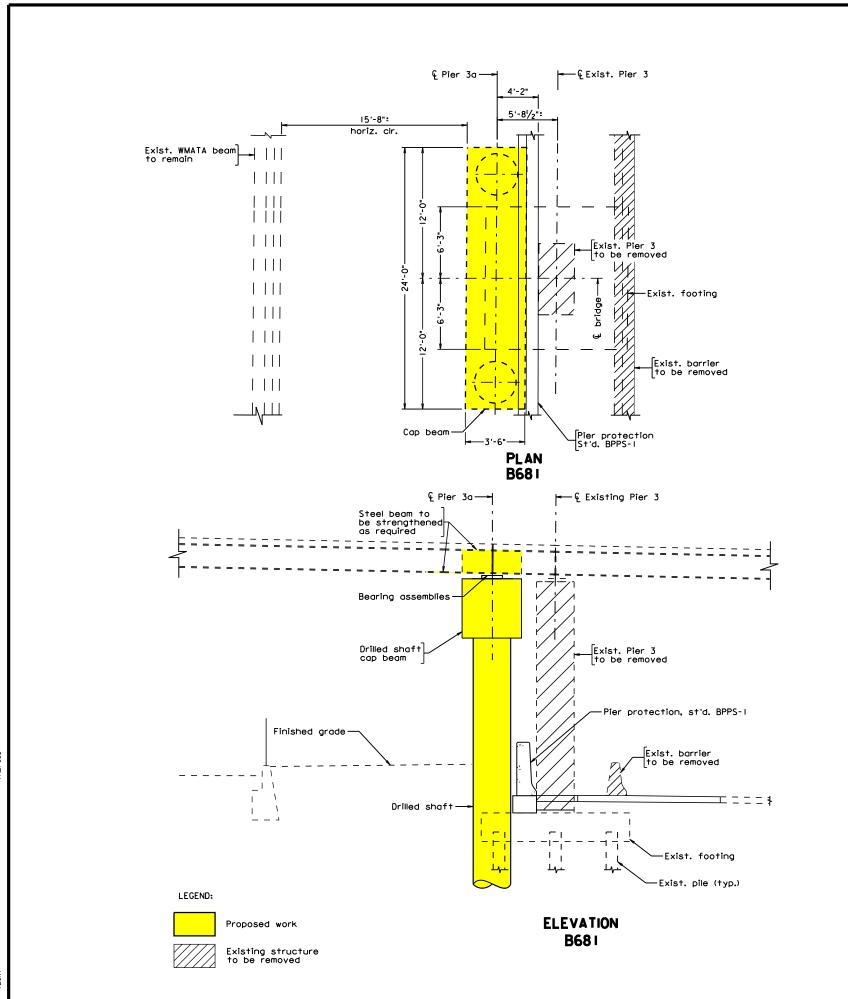
Exist, 72" drain pipe

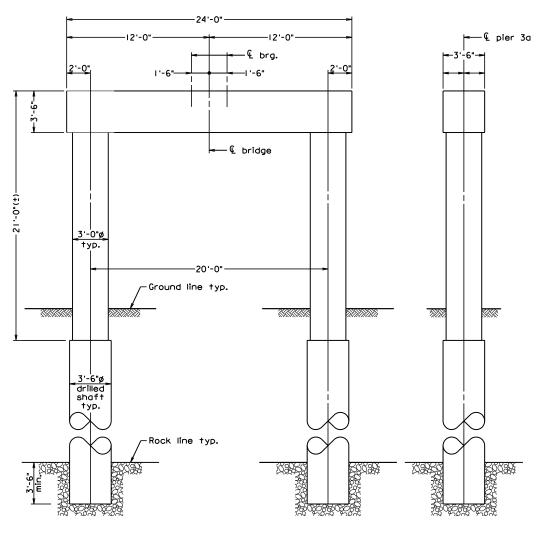
Abut. B

(Pier 5 not shown)

* For pier relocation

PIER I





ELEVATION PIER 30

END VIEW

All new deep foundations will be drilled to minimize noise,vibrations and work zone footprint.

> PRELIMINARY PLANS THESE PLANS NOT TO BE USED FOR CONSTRUCTION OF BRIDGE

CONCEPTUAL PLANS

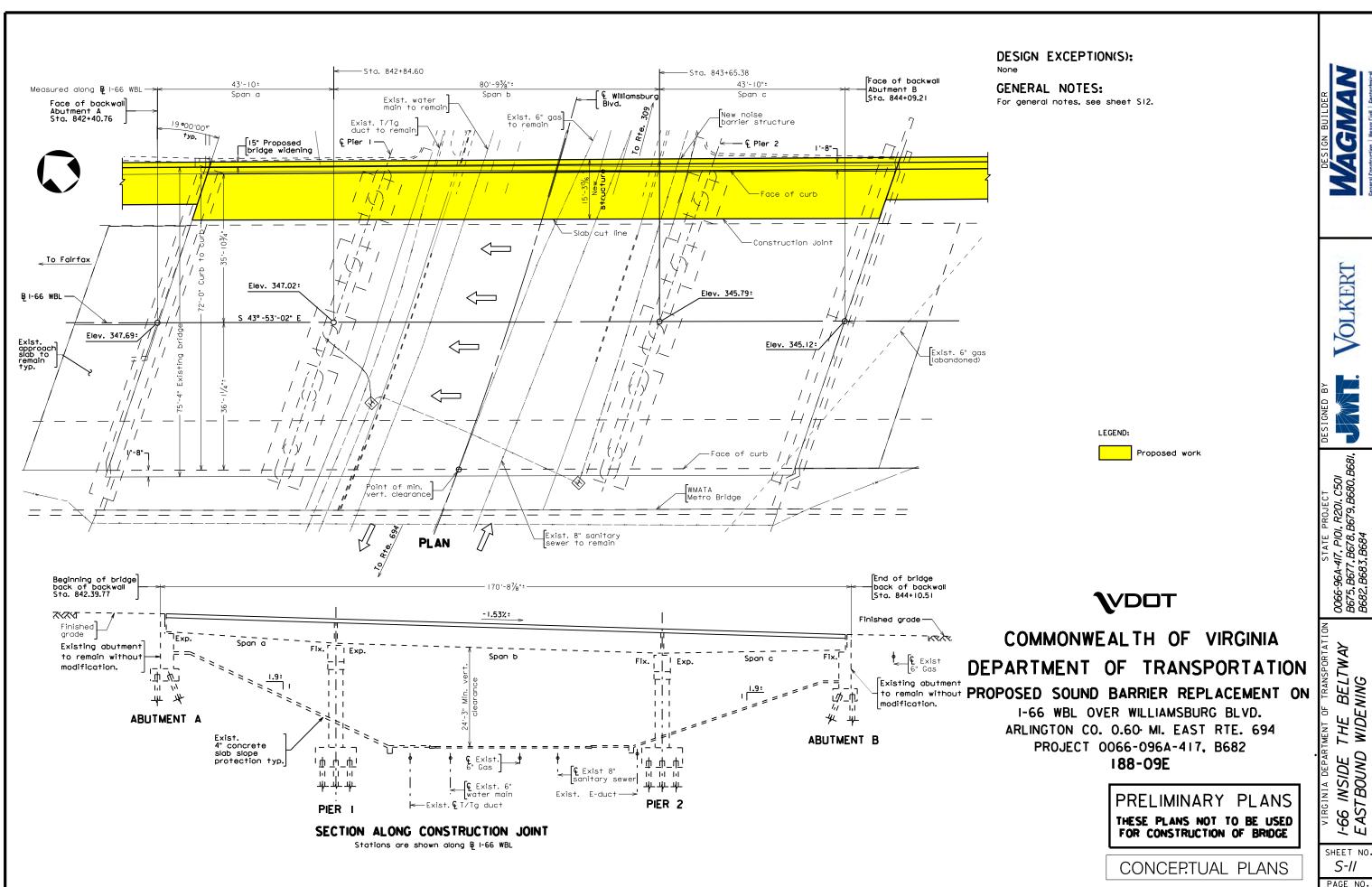
PRELIMINARY NOT TO SCALE

SHEET NO. S-10 PAGE NO.

STATE PROJECT 0066-96A-417, P101, R201, C501 B675, B677, B678, B679, B680, B681, 1 B682, B683, B684

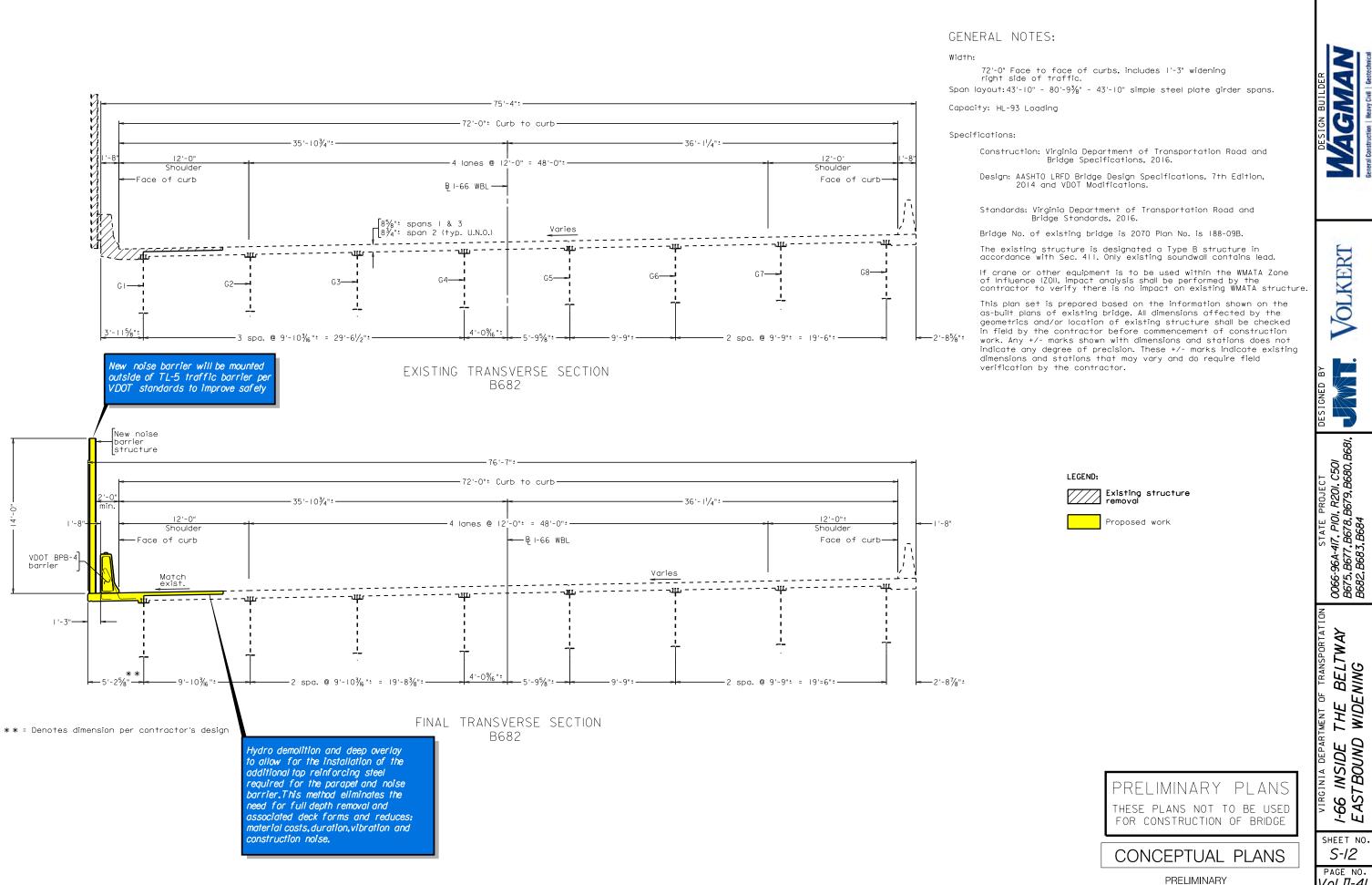
THE BELTWAY WIDENING 1-66 INSIDE EASTBOUND

Vol II-39



PRELIMINARY NOT TO SCALE

Vol II-40



OLKERT

0066-9 B675,1 B682,1

THE BELTWAY WIDENING

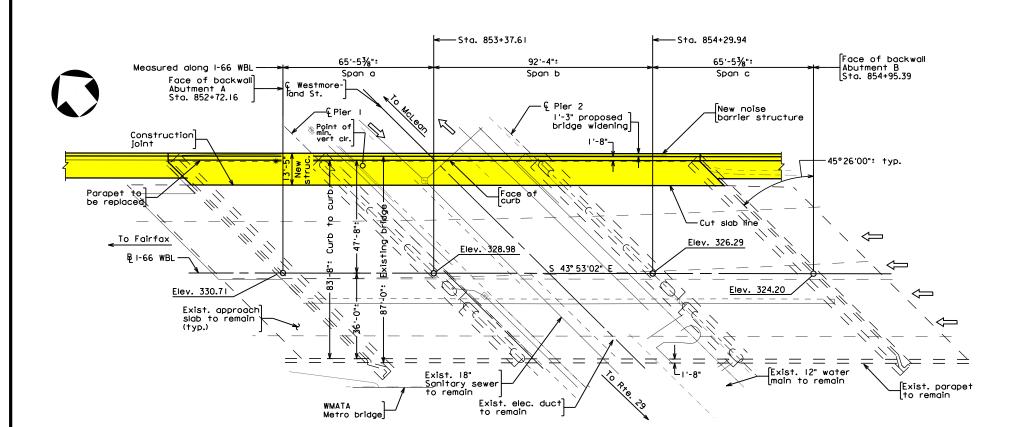
INSIDE TBOUND 1-66 II EASTL

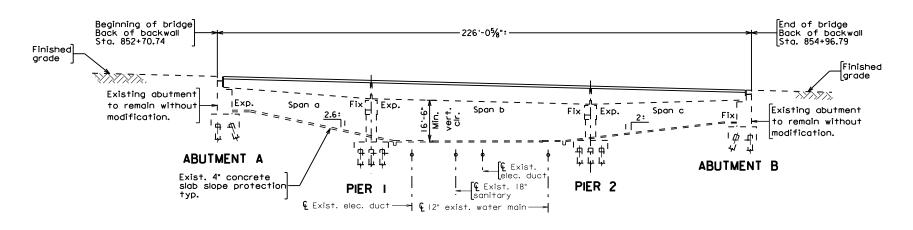
SHEET NO. S-12

PAGE NO. Vol ∏-4l

NOT TO SCALE

PAGE NO. Vol []-42





PLAN

SECTION ALONG CONSTRUCTION JOINT

Stations are shown along B I-66 WBL

DESIGN EXCEPTION(S):

None

GENERAL NOTES:

Width: 83'-8" face to face of curbs. Includes widening of 1'-3" on right side of traffic.

Span layout: 65'-5%" - 92'-4" - 65'-5%" simple steel plate girder

Capacity: HL-93 Loading

Specifications:

Construction: Virginia Department of Transportation Road and Bridge Specifications, 2016.

Design Widening: AASHTO LRFD Bridge Design Specifications, 7th Edition, 2014 and VDOT Modifications.

Standards: Virginia Department of Transportation Road and Bridge Standards, 2016.

Bridge No. of existing bridge is 2066 Plan No. is 188-11C.

The existing structure is designated a Type B structure in accordance with Sec. 411. Only existing soundwall contains lead.

If crane or other equipment is to be used within the WMATA Zone of Influence (ZOI), impact analysis shall be performed by the contractor to verify there is no impact on existing WMATA structure.

This plan set is prepared based on the information shown on the as-built plans of existing bridge. All dimensions affected by the geometrics and/or location of existing structure shall be checked in field by the contractor before commencement of construction work. Any +/- marks shown with dimensions and stations does not indicate any degree of precision. These +/- marks indicate existing dimensions and stations that may vary and do require field verification by the contractor.

LEGEND:

Proposed work

VDOT

COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

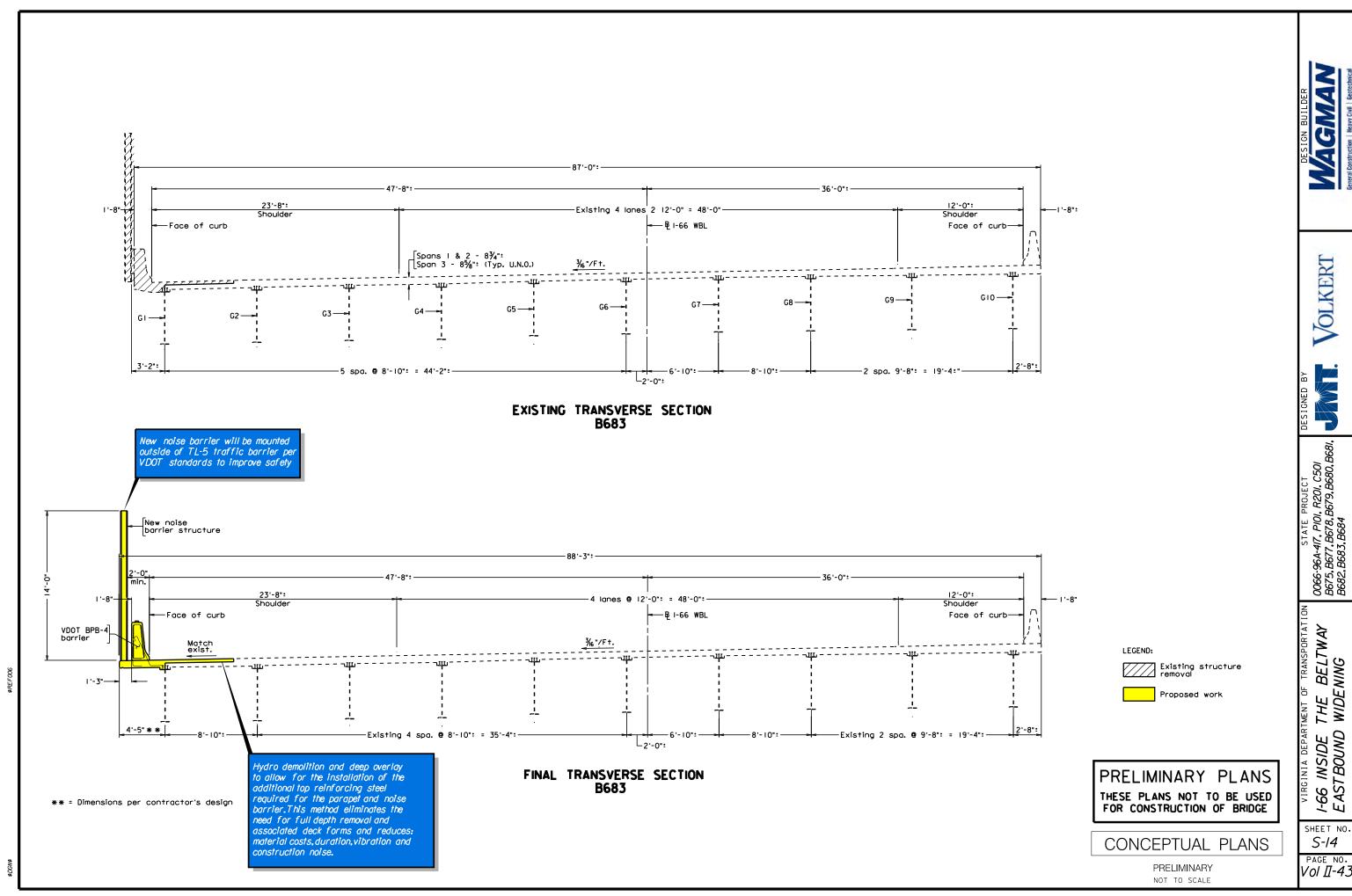
PROPOSED SOUND BARRIER REPLACEMENT ON I-66 WBL OVER WESTMORELAND ST. ARLINGTON CO. 0.080 MI. RTE. 694
PROJECT 0066-96A-417, B683
188-11F

PRELIMINARY PLANS
THESE PLANS NOT TO BE USED
FOR CONSTRUCTION OF BRIDGE

CONCEPTUAL PLANS

PRELIMINARY
NOT TO SCALE

\$1/9



SHEET NO.

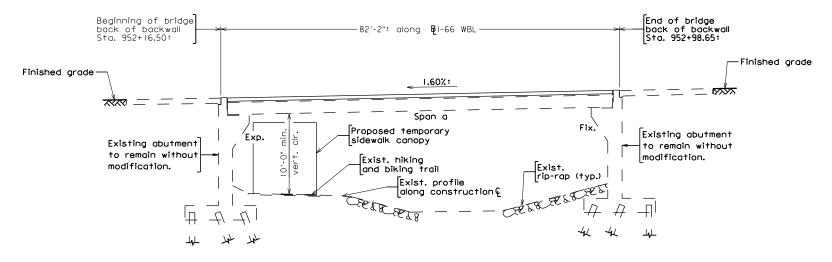
PAGE NO.

PAGE NO.

Face of backwall Face of backwall Abutment A Sta. 952+17.75: ·79'-8": along **B** I-66 EBL Abutment B Sta. 952+97.40: [1'-8" new I'-3" proposed bridge widening parapet Face of Elev. 251.93; Construction To Fairfax Elev. 253.17: Exist, approach _Exist face of curb ∟ı.-8..;

PLAN

WMATA Metro Bridge



ABUTMENT B ABUTMENT A DEVELOPED SECTION ALONG CONSTRUCTION JOINT

Stations are shown along & I-66 WBL

GENERAL NOTES:

Width: 47'-0" face-to-face of curb. Includes widening of 1'-3" on right side of traffic.

Span layout: 79'-8" steel box girders and 80' steel rolled beam. Capacity: HS20-44 loading and Modified Military Loading.

Drainage area: XXX sq. mi.

Specifications:

Construction: Virginia Department of Transportation Road and Bridge Specifications, 2016.

Design: AASHTO LRFD Bridge Design Specications, 7th Edition, 2014; and VDOT Modifications.

Standards: Virginia Department of Transportation Road and Bridge Standards, 2016.

Bridge No. of existing bridge is 2075. Plan No. is 255-20A.

This plan set is prepared based on the information shown as the as-built plans of existing bridge. All dimension affected by the geometrics and/or location of existing structure shall be checked in field by the contractor before commencement of construction work. Any: marks shown with dimensions and stations does not indication any degree of precision. These: marks indicate existing dimensions and stations that may vary and do require field verification by the contractor.

LEGEND:

Proposed work

****VDOT

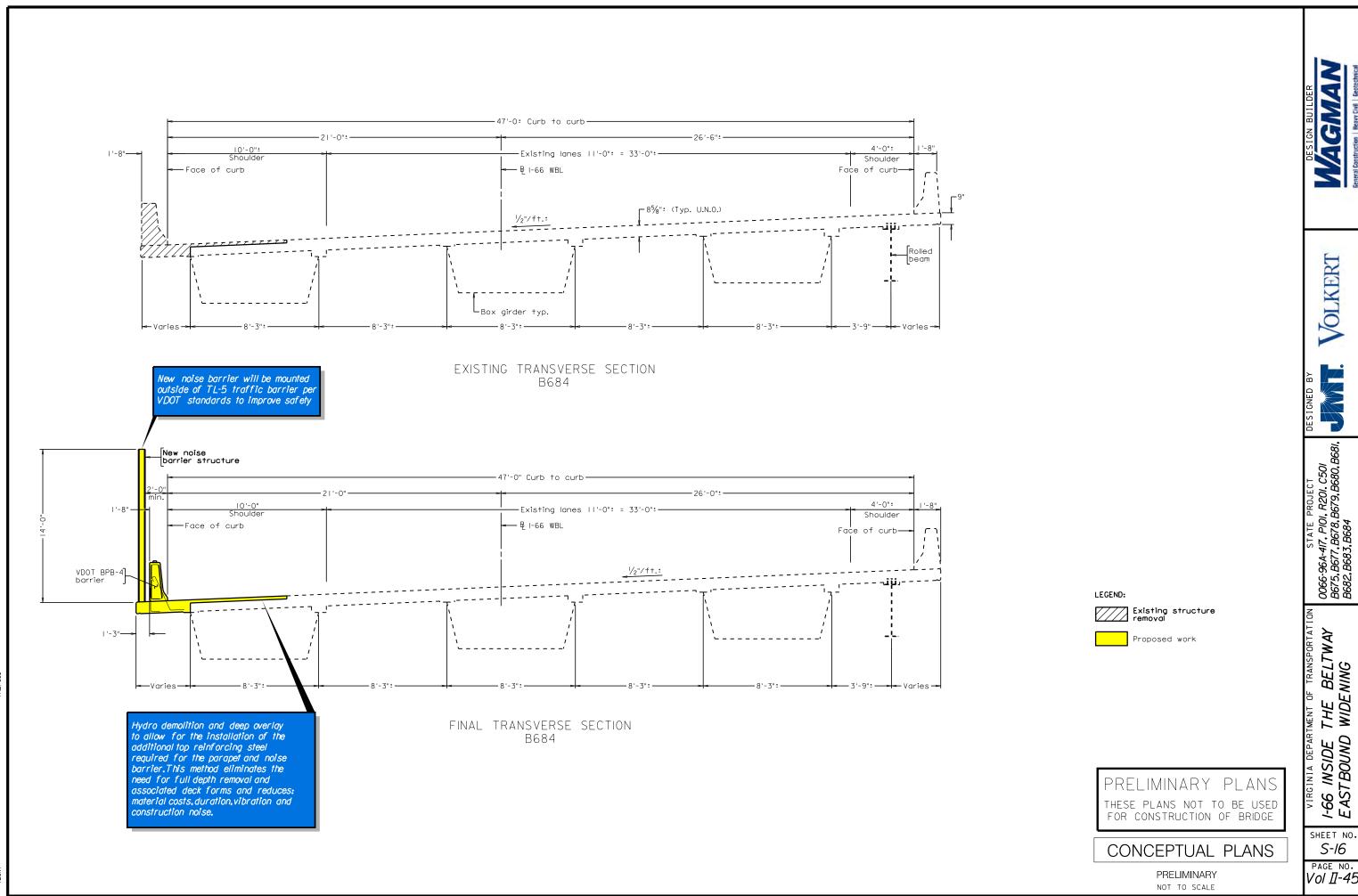
COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION PROPOSED SOUND BARRIER ON

I-66 WBL OVER BON AIR PARK ARLINGTON CO. 0.17 MI. E OF PATRICK HENRY DRIVE PROJECT 0066-096A-417, B684 255-20C

> PRELIMINARY PLANS THESE PLANS NOT TO BE USED FOR CONSTRUCTION OF BRIDGE

CONCEPTUAL PLANS

PRELIMINARY NOT TO SCALE



THE BELTWAY WIDENING

1-66 INSIDE EASTBOUND

SHEET NO. S-16

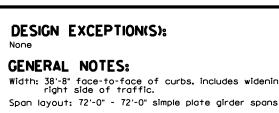
PAGE NO.



OLKERT

SHEET NO. S-17

PAGE NO.



Width: 38'-8" face-to-face of curbs, includes widening of 8'-0" min, on

Capacity: HS20-44 Loading and modified military loading. HL-93 Loading for widening.

Specifications:

Construction: Virginia Department of Transportation Road and Bridge Specifications, 2016.

Design Widening: AASHTO LRFD Bridge Design Specifications, 7th Edition 2014 and VDOT Modifications.

Standards: Virginia Department of Transportation Road and Bridge Standards, 2016.

Bridge number of existing bridge is 2175. Plan number is 169-05A.

All structural steel within the widened portion of structure, except in bearings and sole plates, shall be ASTM A709, Grade 50. Structural Steel in bearing and sole plates shall be ASTM A709 Grade 36 and shall be painted Green, 595-34097.

Joint closure at piers shall be full joint closure. Joint closure concrete shall be LMC-VE concrete for Latex-Modified Concrete Early Strength Overlays.

This plan set is prepared based on the information shown on the as-built plans of existing bridge. All dimensions affected by the geometrics and/or location of existing structure shall be checked in field by the contractor before commencement of construction work. Any +/- marks shown with dimensions and stations does not indicate any degree of precision. These +/- marks indicate existing dimensions and stations that may vary and do require field verification by the contractor.

Existing slab slope protection shall be extended to accommodate the

After completion of concrete substructure surface repair, all areas on substructure shall receive a coat of waterproofing and pier caps shall receive a coat of epoxy Type EP-S. All other waterproofed. Abutments backwalls and top of abutments seats existing substructure (Abutments, Wingwalls, Piers) shall be coating Tex. Cote 300.

> All new deep foundations will be drilled to minimize noise, vibrations and work zone footprint.

****VDOT

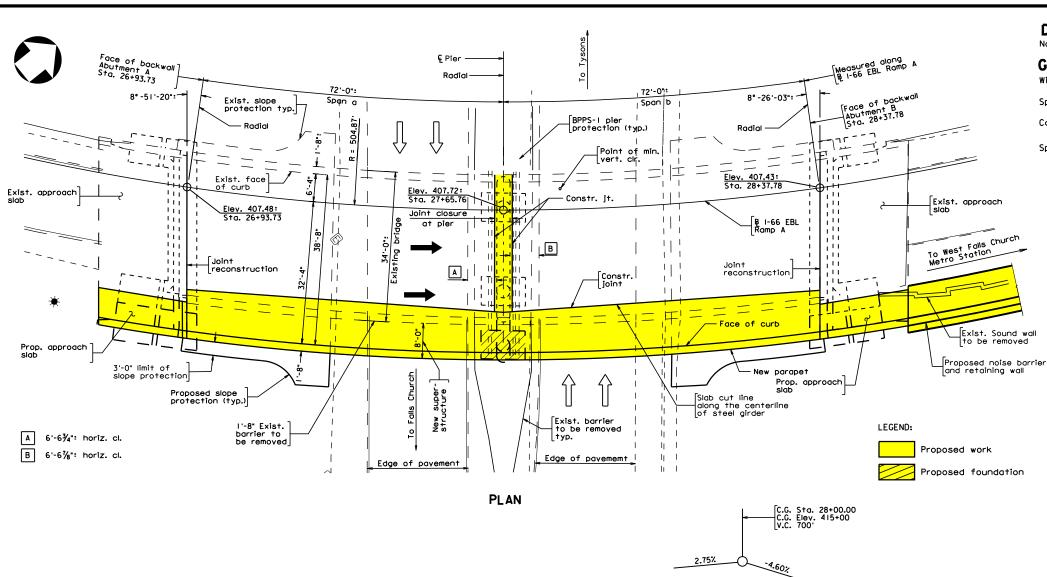
COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION

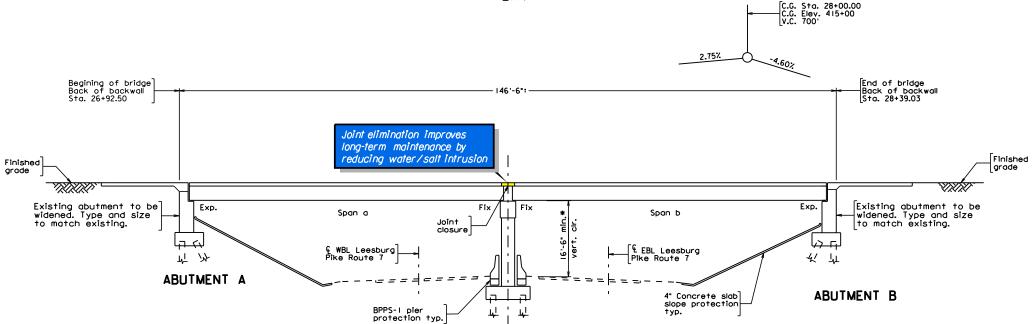
PROPOSED BRIDGE WIDENING ON I-66 E.B.L. RAMP A OVER RTE. 7 1.8 MI. N.W. OF FALLS CHURCH PROJ. 0066-96A-493. B686 169-05B

> PRELIMINARY PLANS THESE PLANS NOT TO BE USED FOR CONSTRUCTION OF BRIDGE

CONCEPTUAL PLANS

PRELIMINARY NOT TO SCALE





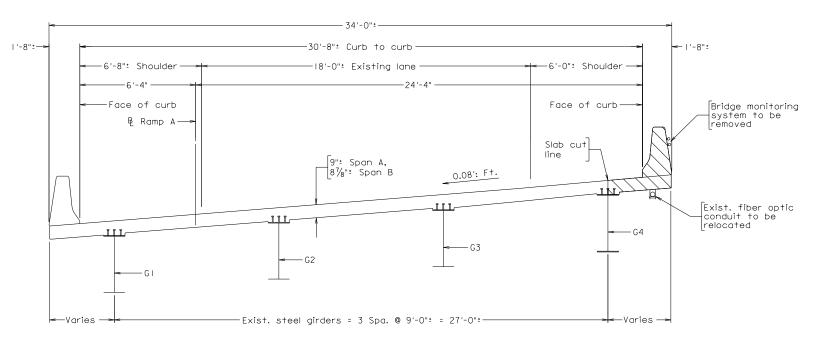
SECTION ALONG CONSTRUCTION JOINT

PIER

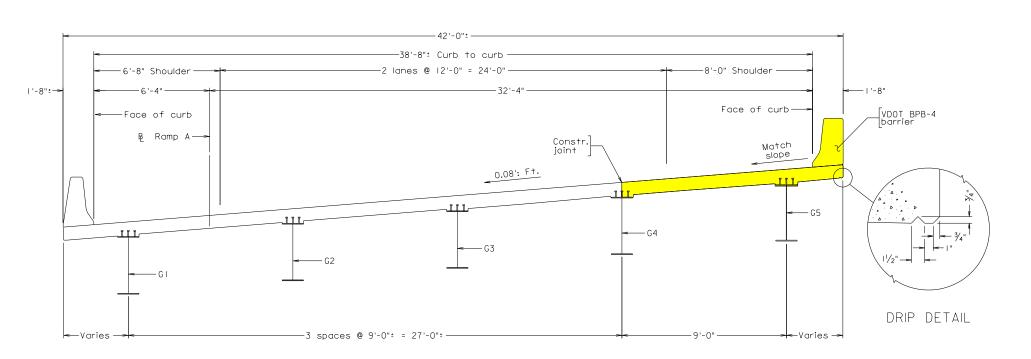
Stations are shown along & I-66 EBL Ramp A

*Per 2017 inspection report.

PAGE NO.



EXISTING TRANSVERSE SECTION B686



FINAL TRANSVERSE SECTION B686

PRELIMINARY PLANS

THESE PLANS NOT TO BE USED

FOR CONSTRUCTION OF BRIDGE

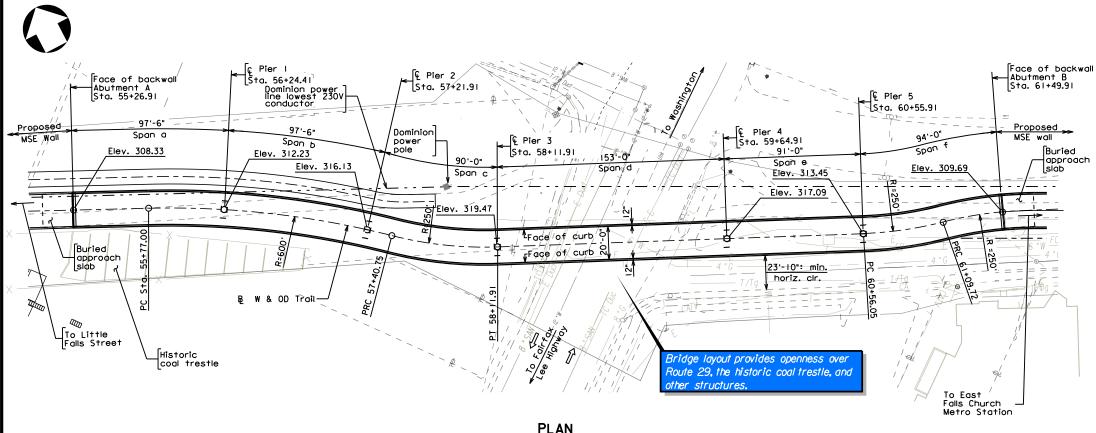
LEGEND:

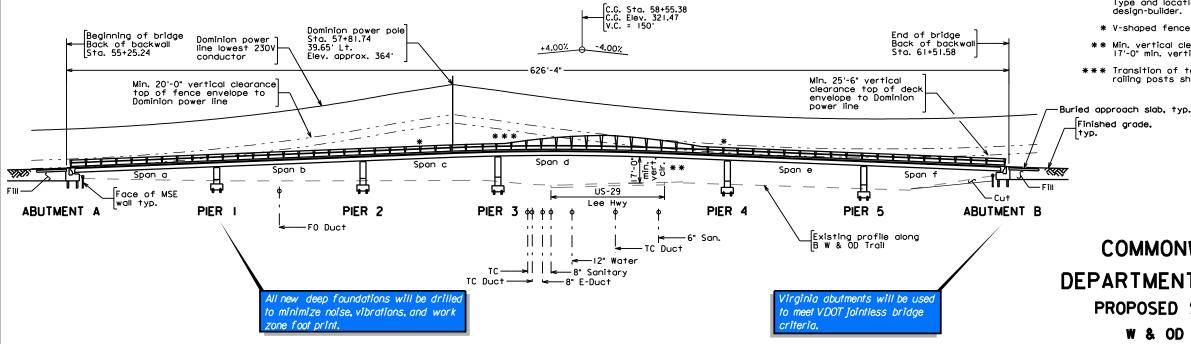
Existing structure removal

Proposed work



PAGE NO.





DEVELOPED SECTION ALONG B W & OD TRAIL

DESIGN EXCEPTION(S):

GENERAL NOTES:

20'-0" face-to-face of curbs. Width:

Span layout: 97'-6" - 97'-6" - 90'-0" - 153'-0" - 91'-0" - 94'-0" continuous structural steel plate girder spans.

90 psf pedestrian loading with no reduction allowed.

Specifications:

Capacity:

_Finished grade,

Construction: Virginia Department of Transportation Road and

Bridge Specifications, 2016.

AASHTO LRFD Guide Specifications for Design of Pedestrian Bridges, 2nd Edition, 2009 including interims through 2015; and VDDT Modifications. AASHTO LRFD Bridge Design Specifications, 7th Edition, 2014; and VDDT Modifications.

Standards: Virginia Department of Transportation Road and Bridge Standards, 2016; including all current revisions.

These plans are incomplete unless accompanied by the Supplemental Specifications and Special Provisions included in the contract documents.

All structural steel, except in bearings and sole plates, shall be ASTM A709 Grade 50. Structural steel in bearings and sole plates shall be ASTM A709 Grade 36.

Finish paint color for structural steel shall be grey. Approval of the color shall be made by the VDOT Project Manager.

Finish color for concrete shall be grey. Approval of the color shall be made by the VDOT Project Manager.

Lightweight concrete shall be used for deck and curbs.

Lighting on the structure shall be provided as per RFP Part 2 technical requirements and special provisions.

For additional information refer to RFP, public hearing and design charrette documents.

Type and location of the utilities shall be verified by the design-builder.

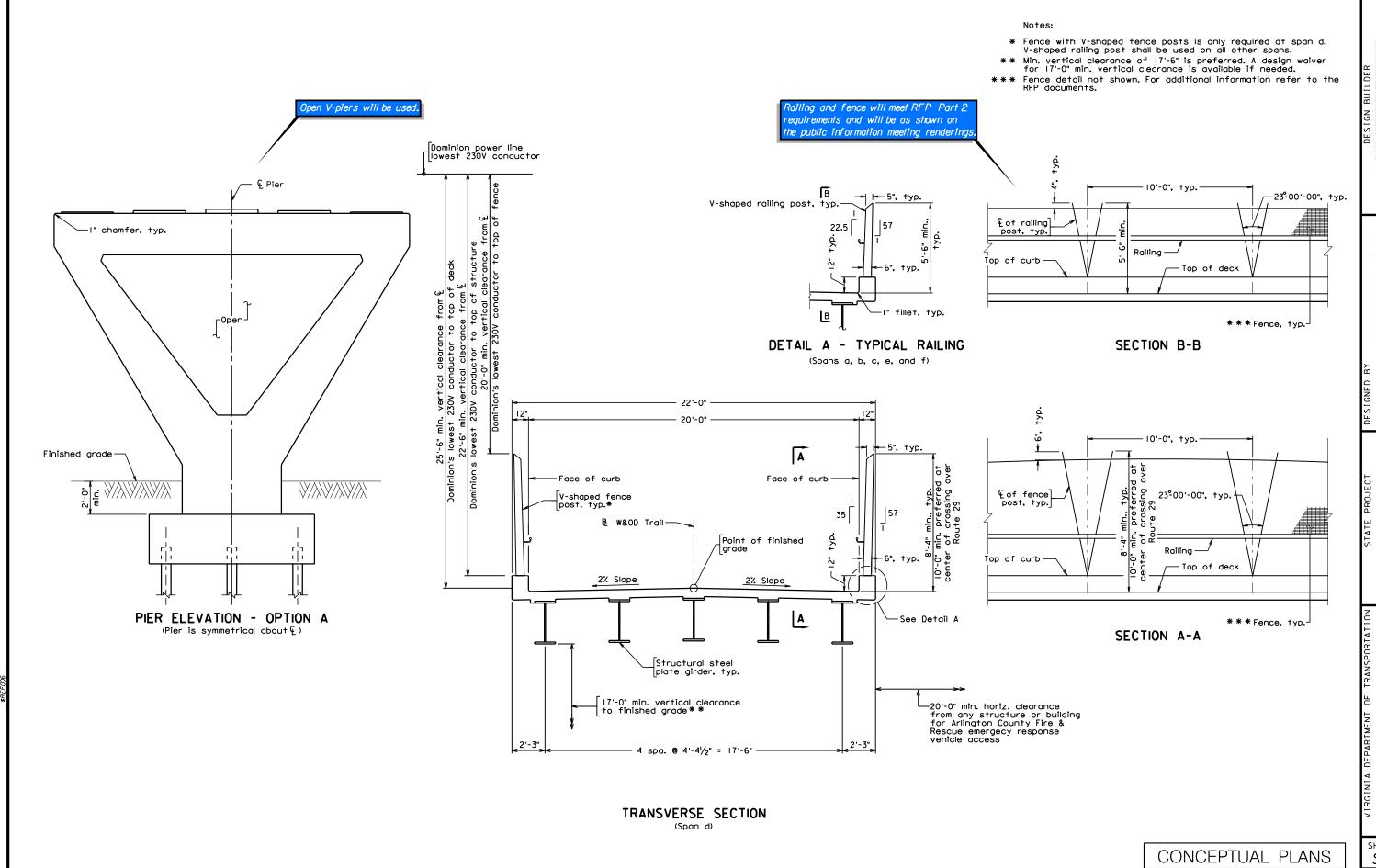
- * V-shaped fence and railing posts are required.
- ** Min. vertical clearance of 17'-6" is preferred. A design waiver for 17'-0" min. vertical clearance is available if needed.
- *** Transition of top member of fence from fence posts (span d) to railing posts shall be curved.

COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION PROPOSED SHARED USE PATH BRIDGE

W & OD TRAIL OVER LEE HIGHWAY ARLINGTON CO. 0.20 MI. E. OF 25TH ST. N. PROJECT 0066-096-417, B680

CONCEPTUAL PLANS

PRELIMINARY Scale: 1/32" = 1'-0"



VOLKERT

STATE PROJECT 0066-96A-417, P101, R201, C501 B675, B677, B678, B679, B680, B681, B682, B683, B684

I-66 EASTBOUND WIDENING INSIDE THE BELTWAY

SHEET NO. S-20 PAGE NO. Vol II-49

PRELIMINARY Not to scale









Volume II Conceptual Plans

September 2017